Mitra 09/935,390

26/04/2004

=> d ibib abs ind 18 1-2

L8 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:742250 HCAPLUS

DOCUMENT NUMBER: 133:318285

TITLE: Cloning and cDNA sequences of secreted

human proteins and therapeutic uses

INVENTOR(S): Garcia, Pablo D.

PATENT ASSIGNEE(S): Chiron Corporation, USA SOURCE: PCT Int. Appl., 74 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE: Engine FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PAT	rent 1	NO.		KI	ND DATE APPLICATION NO. DATE												
					A2 20001019 A3 20010412				W	0 20	00-U	s955	5	2000	0410			
	"						AT,			BA.	RR:	BG.	BR.	RY.	CA.	CH.	CN.	CR.
		** .	•	-	•		DM,	-	-		-		-	-	-		-	
			•	•	•	•	JP,	•	•	•	•	•	•	•			•	•
			•	-	•	•	MK,	•	•	•	-	-	-	-				•
			•	•	•	•	TJ,	•	•	•	•	•	-	-	•	-	-	
			•	•	•	•	KZ,	•	•	•	-	0117	007	02,	V 2 ()	10,	<i>511</i> ,	211,
		RW: GH, GM,			-	•		_		_		UG.	ZW.	AT.	BE.	CH.	CY.	DE.
		DK, ES,		•	•	•	•	•	•	•	•	•	•	•	-	-	-	-
			•	-	-	_	GN,	_	_	_	_				,		,	,
	ΕP	1177	•	-	A	•	•		•	-	-	-			2000	0410		
							DK,										MC,	PT,
			-	-		_	FI,		•	•	•	,	•	·	•	•	•	•
	JР	2002	•	-		-	-		JP 2000-611678 20000410									
	US	2004	0099	50	A	1	2004	0115		U	S 20	03-4	5814	3	2003	0609		
PRIO	RIORITY APPLN. INFO										999-	1285	74P	P	1999	0409		
										US 1	999-	1500	54P	P	1999	0820		
									,	US 2	000-	5463	09	В1	2000	0410		
										WO 2	000-	US 95	55	W	2000	0410		

AB Fifteen secreted human proteins and full-length cDNA sequences encoding the proteins have been identified. The proteins have various potential uses as therapeutics, such as for stimulating blood cell generation in patients receiving cancer chemotherapy, for treatment of bone marrow transplantation patients, and for healing fractured bones. The proteins and cDNA sequences can also be used, inter alia, for targeting other proteins to the membrane or extracellular milieu.

IC ICM C12N015-12

ICS C12N015-19; C07K014-47; C07K014-52; C07K016-18; C07K016-24; C12N015-62

CC 3-3 (Biochemical Genetics)

Section cross-reference(s): 1, 6, 13

ST secretory protein cDNA sequence human

IT Drug screening

Drugs

Molecular cloning

(cloning and cDNA sequences of secreted human

proteins and therapeutic uses)

IT Antibodies

RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES

```
(Uses)
         (cloning and cDNA sequences of secreted human
         proteins and therapeutic uses)
      Fusion proteins (chimeric proteins)
· IT
      RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL
      (Biological study); PREP (Preparation); USES (Uses)
         (cloning and cDNA sequences of secreted human
         proteins and therapeutic uses)
      Signal peptides
 IT
      RL: BSU (Biological study, unclassified); BUU (Biological use,
      unclassified); BIOL (Biological study); USES (Uses)
         (cloning and cDNA sequences of secreted human
         proteins and therapeutic uses)
      cDNA sequences
 IT
         (for secretory proteins of human; cloning and cDNA sequences of
         secreted human proteins and therapeutic
         uses)
      Protein sequences
 IT
         (of secretory proteins of human; cloning and cDNA sequences of
         secreted human proteins and therapeutic
         uses)
      Epitopes
 IT
         (of secretory proteins; cloning and cDNA sequences of secreted
         human proteins and therapeutic uses)
      Proteins, specific or class
 IT
      RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic
      use); BIOL (Biological study); PREP (Preparation); USES (Uses)
         (secretory; cloning and cDNA sequences of secreted
         human proteins and therapeutic uses)
                     222963-78-2P, Protein (human brain gene KIAA0880)
      214684-34-1P
 IT
      251929-01-8P 303071-69-4P 303071-70-7P 303071-71-8P 303071-73-0P 303071-74-1P 303071-75-2P 303071-77-4P
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                                    303071-81-0P
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                                   301937-24-6
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                                   301937-37-1
      301937-34-8
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      use); BIOL (Biological study); USES (Uses)
         (nucleotide sequence; cloning and cDNA sequences of secreted
         human proteins and therapeutic uses)
      ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN
 L8
 ACCESSION NUMBER:
                           1998:405981 HCAPLUS
                           129:77600
 DOCUMENT NUMBER:
 TITLE:
                           Secreted human proteins,
                           cDNA encoding them, their production with recombinant
                           cells, and method for identification of secreted
                           proteins
 INVENTOR(S):
                          Escobedo, Jaime; Hu, Quianjin; Garcia,
                           Pablo; Williams, Lewis T.; Kothakota,
                           Srinivas
 PATENT ASSIGNEE(S):
                           Chiron Corp., USA
                           PCT Int. Appl., 79 pp.
 SOURCE:
                           CODEN: PIXXD2
 DOCUMENT TYPE:
                           Patent
 LANGUAGE:
                           English
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FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

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APPLICATION NO.
     PATENT NO.
                      KIND DATE
                                                            DATE
                                           WO 1997-US22787
     WO 9825959
                      A2
                            19980618
                                                            19971211
     WO 9825959
                      A3
                            19981008
         W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
             DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR,
             KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG,
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     AU 9857962
                       A1
                            19980703
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                                                            19971211
     EP 948531
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
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     JP 2001505783
                            20010508
                                           JP 1998-526977
                                                            19971211
                       T2
                           20020620
                                           US 2001-935390 20010822
     US 2002076761
                      A1
PRIORITY APPLN. INFO.:
                                        US 1996-32757P P 19961211
                                        US 1996-327575 P 19961211
                                        US 1997-988671
                                                         B1 19971211
                                        WO 1997-US22787 W 19971211
     Secreted proteins can be identified using a method which exploits the
AB
     ability of microsomes to modify proteins post-translationally. Nineteen
     human secreted proteins and full-length cDNA sequences encoding the
     proteins have been identified using this method. The proteins and cDNA
     sequences can be used, inter alia, for targeting other proteins to the
     membrane or extracellular milieu.
     ICM C07K014-00
IC
     3-3 (Biochemical Genetics)
CC
     Section cross-reference(s): 6, 13
     sequence human secreted protein cDNA
ST
IT
     Gene, animal
     RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological
     study); USES (Uses)
        (cDNA; secreted human proteins, cDNA
        encoding them, their production with recombinant cells, and method for
        identification of secreted proteins)
     cDNA sequences
ΙT
        (for secreted human proteins)
     Protein sequences
ΙT
        (of secreted human proteins)
IT
     Microsome
        (rough; secreted human proteins, cDNA
        encoding them, their production with recombinant cells, and method for
        identification of secreted proteins)
    Molecular cloning
IT
        (secreted human proteins, cDNA encoding
        them, their production with recombinant cells, and method for
        identification of secreted proteins)
     Antibodies
IT
     RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
        (secreted human proteins, cDNA encoding
        them, their production with recombinant cells, and method for
        identification of secreted proteins)
     Proteins, general, properties
ΙT
     RL: PRP (Properties)
```

```
(secreted; secreted human proteins, cDNA
       encoding them, their production with recombinant cells, and method for
       identification of secreted proteins)
                                209333-07-3
    209333-05-1
                  209333-06-2
                                             209333-08-4
                                                           209333-09-5
ΙT
                 209333-11-9
                              209333-12-0 209333-16-4
    209333-10-8
                                                           209333-21-1
                 209333-29-9
                               209333-37-9
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    209333-26-6
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    209334-50-9 209334-57-6
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                                                           209334-90-7
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                              209335-01-3
    209334-97-4
                  209335-00-2
    266-amino acid precursor) 209335-03-5 209335-04-6
                                                           209335-05-7
    209335-09-1
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                                             209335-12-6
                                                           209335-13-7
    209335-14-8, Protein (human 266-amino acid precursor)
    RL: PRP (Properties)
       (nucleotide sequence; secreted human
       proteins, cDNA encoding them, their production with recombinant
       cells, and method for identification of secreted proteins)
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	ENTRY	SESSION
FULL ESTIMATED COST	29.31	29.52
		•
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.39	-1.39

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 11:33:22 ON 26 APR 2004

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L10		1012	SEA	ABB=ON	L9 AND ?FUSION?(W)?PROTEIN?
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L12		6	SEA	ABB=ON	L10 AND ?RECOMB?(W)?CELL?
L13		0	SEA	ABB=ON	L10 AND ?TRANSCRIPT?(W)?INITIAT?(W)?UNIT?
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L16		24	SEA	ABB=ON	L15 AND ?SECRET?(3A)?PROTEIN?
L17		0	SEA	ABB=ON	L15 AND ?MICROSOM?(3A)?MODIF?
L18		21	SEA	ABB=ON	L15 AND (?MEMBRAN? OR ?EXTRACELL?)
L19		49	SEA	ABB=ON	L12 OR L16 OR L18
L20		9	SEA	ABB=ON	L19 AND ?DRUG?(W)?SCREEN?
L21		18	SEA	ABB=ON	L15 AND ?DRUG?(W)?SCREEN?
L22		19	SEA	ABB=ON	L20 OR L21
L23		69	SEA	ABB=ON	L15 AND (?METHOD? OR ?TECHNIQ? OR ?PROCES? OR
			?PRO	OCED?)	
L24		24	SEA	ABB=ON	L15 AND ?SECRET?(3A)?PROTEIN?
£25		40	SEA	ABB=ON	L22 OR L24 40 hifz from CAPlus
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L15
L16
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L18
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=> d ibib abs 125 1-40

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L25 ANSWER 1 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN

2004:60697 HCAPLUS ACCESSION NUMBER:

140:141703 DOCUMENT NUMBER:

Identification, cloning and sequences of microbial TITLE:

monooxygenases and their use for chiral synthesis and

drug screening

Richardson, Toby INVENTOR(S):

Diversa Corporation, USA PATENT ASSIGNEE(S): PCT Int. Appl., 199 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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PATENT NO. KIND DATE
                                         APPLICATION NO. DATE
    WO 2004007750 A2 20040122
                                         WO 2003-US22013 20030711
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
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            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
            LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
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            NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
            GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.:
                                       US 2002-395220P P 20020711
                        MARPAT 140:141703
OTHER SOURCE(S):
```

The invention provides polypeptides having a monooxygenase activity, ΑB polynucleotides encoding these enzymes, the use of such polynucleotides and polypeptides. The nucleotide sequences and the encoded amino acid sequences of 5 monooxygenases from environmental samples and from Streptomyces diversa are disclosed. In one aspect, the invention provides polypeptides having a monooxygenase activity, such as a Baeyer-Villiger monooxygenases, and/or enzymes for catalysis of sulfoxidn. reactions. Enzymes of the invention can have a monooxygenase, an esterases and/or a dehydrogenase activity. The monooxygenases of the invention can be used for production of chiral synthetic intermediates and for drug screening.

ANSWER 2 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN L25

ACCESSION NUMBER:

2003:912579 HCAPLUS

DOCUMENT NUMBER:

139:399683

TITLE:

Protein and nucleotide sequences of human

transcription factor WT1 and methods for WT1 specific

immunotherapy

INVENTOR(S):

Gaiger, Alexander; McNeill, Patricia D.; Jaya, Nomalie

Corixa Corporation, USA

SOURCE:

U.S. Pat. Appl. Publ., 259 pp., Cont.-in-part of U.S.

Ser. No. 244,830.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 11

PATENT INFORMATION:

PATENT ASSIGNEE(S):

PAT	CENT NO.	KIND	DATE		APPLICATION N	Ο.	DATE
US US ZA US US US US US	ENT NO. 2003215458 2003082196 2001002606 2003072767 2003095971 2003039635 2003198622 2003235557 2004018204 APPLN. INFO	A1 A1 A1 A1 A1 A1 A1 A1 A1	DATE 20031120 20030501 20020930 20030417 20030522 20030227 20031023 20031225 20040129	US US US US US	APPLICATION N	 3 9 4 5 5 0 7 A2 A2 A2 A2 A2 A2 A2 A2	DATE
					2002-286333		20021030

Compns. and methods for the therapy of malignant diseases, such as AB leukemia and cancer, are disclosed. The compns. comprise one or more of a WT1 polynucleotide, a WT1 polypeptide, an antigen-presenting cell presenting a WT1 polypeptide, an antibody that specifically binds to a WT1 polypeptide; or a T cell that specifically reacts with a WT1 polypeptide. Such compns. may be used, for example, for the prevention and treatment of metastatic diseases.

HCAPLUS COPYRIGHT 2004 ACS on STN L25 ANSWER 3 OF 40

2003:717620 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER:

139:225546

TITLE:

Cholesterol regulated genes for secreted and

cell surface proteins and their use in

therapeutic control of cholesterol metabolism

INVENTOR(S): Shang, Jin; Bowen, Benjamin A. Lynx Therapeutics, Inc., USA PATENT ASSIGNEE(S): U.S. Pat. Appl. Publ., 45 pp. SOURCE:

DOCUMENT TYPE:

CODEN: USXXCO Patent

LANGUAGE:

English 1

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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PATENT NO.
                            DATE
                                           APPLICATION NO.
                                                            DATE
                      KIND
                            20030911
                                           US 2003-340192
                                                            20030108
    US 2003170700
                      A1
                                        US 2002-347396P P 20020109
PRIORITY APPLN. INFO.:
    Polynucleotides, proteins, antibodies, labeled probes, marker
     sets, and arrays related to secreted and cell surface
    proteins that are altered in response to cholesterol are provided.
    Methods of detecting alterations in secreted and cell surface
    proteins in response to alterations in cholesterol levels
     (exposure), modulating cholesterol phenotype in cells and for treating a
    subject with adverse effects of altered levels of cholesterol, e.g.,
     elevated or high levels of cholesterol, are also provided.
```

L25 ANSWER 4 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:491367 HCAPLUS

DOCUMENT NUMBER: 139:65422

TITLE: Screening, selection, identification and sequences of

cytochrome P 450 for use in the production of chiral

epoxides

INVENTOR(S): Weiner, David; Burke, Mark; Hitchman, Tim; Pujol,

Catherine; Richardson, Toby; Short, Jay

PATENT ASSIGNEE(S):

SOURCE:

Diversa Corporation, USA PCT Int. Appl., 365 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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KIND
                            DATE
                                           APPLICATION NO.
     PATENT NO.
    WO 2003052050
                      A2
                            20030626
                                           WO 2002-US24910 20020805
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             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
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             TJ, TM
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     US 2003180742
                            20030925
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PRIORITY APPLN. INFO.:
                                        US 2001-309497P P 20010803
```

AB The invention is directed to polypeptides having P 450 activity, polynucleotides encoding the polypeptides, antibodies that bind to these polypeptides, and methods for making and using these polynucleotides and polypeptides. The present invention relates to to methods of selecting or screening and identification of P 450 enzymes for use in the production of chiral epoxides. The nucleotide sequences and the encoded amino acid sequences of 28 P 450 enzymes of bacterial or unknown origin from environmental sources are disclosed. The P 450 enzymes can be used to catalyze the hydrolysis of epoxides and arene oxides to their corresponding diols.

L25 ANSWER 5 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:464738 HCAPLUS

DOCUMENT NUMBER: 139:2148

TITLE: Complete genome sequence of Alloiococcus otitidis,

identification of open reading frames encoding

polypeptide antigens, and immunogenic compositions and

their uses

INVENTOR(S):

Fletcher, Leah Diane; McMichael, John Calhoun; Russell, David Parrish; Zagursky, Robert John

PATENT ASSIGNEE(S):

Wyeth Holdings Corporation, USA

SOURCE:

PCT Int. Appl., 1019 pp.

DOCUMENT TYPE:

CODEN: PIXXD2 Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

3

PATENT INFORMATION:

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APPLICATION NO.
                                                             DATE
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     PATENT NO.
                                                             20021125
                       A2
                            20030612
                                           WO 2002-XA36123
    WO 2003048304
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             NE, SN, TD, TG
                                           WO 2002-US36123
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     WO 2003048304
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    WO 2003048304
                       A3
                            20031211
            AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
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             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
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             TJ, TM
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             CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
             PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
             NE, SN, TD, TG
                                        US 2001-333777P P 20011129
PRIORITY APPLN. INFO.:
                                        US 2002-426742P P 20021118
```

The present invention relates to the complete genomic sequence of AB Gram-pos. bacterium, Alloiococcus otitidis comprising 1,754,382 bp. The present invention also relates to 3325 polynucleotide sequences encoding polypeptides of Alloiococcus otitidis. In particular, the invention relates to antigenic polypeptides encoded by the Alloiococcus otitidis open reading frames (ORFs), and to their use in immunogenic compns., therapeutics, diagnostics and the like. [This abstr record is one of two records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

HCAPLUS COPYRIGHT 2004 ACS on STN L25 ANSWER 6 OF 40

ACCESSION NUMBER:

2003:454444 HCAPLUS

DOCUMENT NUMBER:

139:2142

TITLE:

Complete genome sequence of Alloiococcus otitidis, identification of open reading frames encoding polypeptide antigens, and immunogenic compositions and

WO 2002-US36123 A 20021125

their uses

INVENTOR(S): Fletcher, Leah Diane; McMichael, John Calhoun;

Russell, David Parrish; Zagursky, Robert John

PATENT ASSIGNEE(S): Wyeth Holdings Corporation, USA

PCT Int. Appl., 1019 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

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PATENT NO.
                      KIND
                            DATE
                                            APPLICATION NO.
                                                             DATE
                                           WO 2002-US36123
     WO 2003048304
                       A2
                            20030612
                                                             20021125
                            20031211
     WO 2003048304
                       A3
             AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
             TJ, TM
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             PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
             NE, SN, TD, TG
                            20030612
                       A2
     WO 2003048304
                                           WO 2002-XA36123 20021125
            AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
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             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
             TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
             CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
             PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
             NE, SN, TD, TG
PRIORITY APPLN. INFO.:
                                        US 2001-333777P
                                                             20011129
                                        US 2002-426742P P 20021118
                                        WO 2002-US36123 A 20021125
```

The present invention relates to the complete genomic sequence of ABGram-pos. bacterium, Alloiococcus otitidis comprising 1,754,382 bp. The present invention also relates to 3325 polynucleotide sequences encoding polypeptides of Alloiococcus otitidis. In particular, the invention relates to antigenic polypeptides encoded by the Alloiococcus otitidis open reading frames (ORFs), and to their use in immunogenic compns., therapeutics, diagnostics and the like. [This abstr record is one of two records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

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HCAPLUS COPYRIGHT 2004 ACS on STN
L25 ANSWER 7 OF 40
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2002:978596 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER:

138:51698

TITLE:

Cloning, sequence and possible pharmaceutical use of

human complement-related secreted

protein zcmp2

INVENTOR(S):

Holloway, James L.

PATENT ASSIGNEE(S):

USA

U.S. Pat. Appl. Publ., 29 pp. SOURCE:

CODEN: USXXCO

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE US 2002197699 A1 20021226 US 2000-732242 20001207 US 1999-169758P P 19991209 PRIORITY APPLN. INFO.:

The present invention relates to polynucleotide and polypeptide AB mols. encoding secreted protein zcmp2, being

homologous to the complement family of proteins. The cDNA sequence, the encoded amino acid sequence, and the expression profile of the human protein zcmp2 are disclosed. The present invention also includes antibodies to the zcmp2 polypeptides and zcmp2 fusion proteins.

L25 ANSWER 8 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:928140 HCAPLUS

DOCUMENT NUMBER:

138:20530

cDNAs encoding human zsig58 protein and its use in TITLE:

diagnosis and treatment of diseases

Sheppard, Paul O.; Chandrasekher, Yasmin A. INVENTOR(S):

Zymogenetics, Inc., USA PATENT ASSIGNEE(S):

U.S. Pat. Appl. Publ., 49 pp., Division of U.S. Ser. SOURCE:

No. 366,448.

CODEN: USXXCO

Patent DOCUMENT TYPE: LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

KIND DATE APPLICATION NO. DATE PATENT NO. US 2002182677 A1 20021205 US 2002-86135 20020226 US 1998-95199P P 19980803 PRIORITY APPLN. INFO.: A3 19990803 US 1999-366448

The present invention relates to polynucleotide and polypeptide AB mols. for zsig58, a novel member of the TTGR family of proteins. The polynucleotides encoding zsig58 may, for example, be used to identify a region of the genome associated with human disease states. present invention also includes methods for producing the protein, uses therefor and antibodies thereto.

HCAPLUS COPYRIGHT 2004 ACS on STN L25 ANSWER 9 OF 40

2002:927265 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 138:20515

Human sialic acid-binding immunoglobulin-like lectin TITLE:

family member Siglec-12, its cloning and mapping and

tissue expression, and related therapeutic use

Anderson, Dirk M.; Marken, John S. INVENTOR(S):

PATENT ASSIGNEE(S): Immunex Corporation, USA PCT Int. Appl., 93 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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KIND
                            DATE
                                           APPLICATION NO. DATE
     PATENT NO.
                            20021205
     WO 2002096452
                       A1
                                           WO 2002-US16906 20020529
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
             TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
             CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                      A1 20030227
                                          US 2002-158238 20020529
     US 2003040604
PRIORITY APPLN. INFO.:
                                        US 2001-294199P P 20010529
     Provided herein are polypeptide and polynucleotide sequences for
AB
     a mol. having homol. to the siglec (sialic acid-binding Ig-like lectin)
     family of polypeptides. In particular, Siglec-12 is identified by
     sequence homolog search in genomic sequences of chromosome 19 (GenBank
     AC011452). The Siglec-12 gene (GenBank AF337818 referenced, in fact it
     corresponds to Siglec-11) has 11 exons and 10 introns and is mapped on
     chromosome 19q13.4, approx. 1.2-1.3 megabases distal to Siglec-5.
     Siglec-12 comprises predicted signal peptide (amino
     acid position: 1-14), five Ig domains (14-141, 142-235, 253-340, 357-443,
     and 444-538), a transmembrane domain (550-570), a cytoplasmic
     domain (571-686, with two signaling motifs at 630-635 and 654-659), and a
     number of conserved cysteine residues. The Siglec-12 mRNA tissue expression
     profile is also provided. Also provided are methods of making and using a
     siglec-like polypeptide and polynucleotide, and using these
     recombinant Siglec-12 for the treatment of related diseases.
REFERENCE COUNT:
                               THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
                      HCAPLUS COPYRIGHT 2004 ACS on STN
L25 ANSWER 10 OF 40
                         2002:845509 HCAPLUS
ACCESSION NUMBER:
                         137:347524
DOCUMENT NUMBER:
                         Inhibition of angiogenesis by delivery of nucleic
TITLE:
                         acids encoding anti-angiogenic polypeptides derived
                         from plasminogen
                         Papkoff, Jackie
INVENTOR(S):
                         Valentis, Inc., USA; Pfizer, Inc.
PATENT ASSIGNEE(S):
                         U.S., 46 pp.
SOURCE:
                         CODEN: USXXAM
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT:
                         1
PATENT INFORMATION:
                                        APPLICATION NO.
     PATENT NO.
                     KIND DATE
                                                          DATE
     US 6475784 B1
                            20021105
                                          US 1998-192012 19981113
PRIORITY APPLN. INFO.:
                                        US 1997-66020P P 19971114
     This invention pertains to the field of inhibition of angiogenesis in
AB
     mammals by delivery of angiogenesis inhibitors derived from plasminogen.
     The angiogenesis inhibitors are delivered in polypeptide or nucleic acid
```

form. The anti-angiogenic polypeptides include at least kringles 1-3 of

of plasminogen. The sequence encoding the anti-angiogenic polypeptide

generally is operably linked to a polynucleotide sequence

plasminogen, extending from about amino acid 97 to at least amino acid 462

encoding a signal peptide. The invention also provides methods of using the polypeptides and nucleic acids for inhibiting angiogenesis and other conditions characterized by undesirable endothelial cell proliferation. The invention also provides endothelial cells and tumor cells that contain a recombinant expression cassette which includes a polynucleotide sequence encoding a signal peptide operably linked to a polynucleotide sequence encoding an anti-angiogenic polypeptide. A plasmid vector, pMB249, was constructed which encodes mouse mouse kringle domains of plasminogen linked to IgK signal peptide. Inhibition of human lung endothelial cell proliferation by transfection with pMB249 was demonstrated. A decrease in the number and size of lung metastases in the mouse Lewis lung model was also demonstrated. REFERENCE COUNT: THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS ⁻4 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 11 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:832939 HCAPLUS

DOCUMENT NUMBER: 137:351520

TITLE: Novel human and mouse cytokine family proteins

Zcyto20-22 and Zcyto24-25 and their class II cytokine receptor ZcytoR19, functional studies and therapeutic

use thereof

INVENTOR(S): Sheppard, Paul O.; Fox, Brian A.; Klucher, Kevin M.;

Taft, David W.; Kindsvogel, Wayne R.

PATENT ASSIGNEE(S): Zymogenetics, Inc., USA

SOURCE: PCT Int. Appl., 160 pp.

DOCUMENT TYPE: Patent .

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 6

PATENT INFORMATION:

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PATENT NO.
                     KIND DATE
                                          APPLICATION NO. DATE
    WO 2002086087 A2
                           20021031
                                          WO 2002-US12887 20020419
            AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
            LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
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             UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
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                           20020404
                                          US 2001-895834
     US 2002039763
                      A1
                                                            20010629
                           20030605
    US 2003104416
                      A1
                                          US 2002-127816
                                                            20020419
                                       US 2001-285408P P 20010420
PRIORITY APPLN. INFO.:
                                                          20010420
                                       US 2001-285424P
                                                        P 20010425
                                        US 2001-286482P
                                        US 2001-895834
                                                        A 20010629
                                        US 2001-341050P
                                                        P 20011022
                                        US 2001-341105P
                                                            20011022
                                        US 2000-215446P
                                                            20000630
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AB The present invention relates to polynucleotide and polypeptide mols. for Zcyto20, Zcyto21, Zcyto22, Zcyto24 and Zcyto25 proteins which are most closely related to interferon-α at the amino acid sequence level. Specifically, three human proteins Zcyto20-22 and two mouse proteins Zcyto24-25 with strong sequence homolog and their class II receptor ZcytoR19 from human are provided. The receptor for this protein

family is a class II cytokine receptor, in particular protein ZcytoR19. Protein Zcyto20-22 can induce ISRE (interferon-stimulated response element) signaling, which is a signaling via interferon-response pathway interaction of type 1 interferons with their specific receptor leading to induction of a number of genes responsible for their antiviral/antiproliferative activity. The Zcyto20-22 signaling is enhanced by coexpressing ZcytoR19 and IL10Rb and is inhibited by pretreatment of recombinant cell overexpressing human ZcytoR19 with a neutralizing antibody to IL10Rb. The ability of Zcyto20, Zcyto21, Zcyto22, Zcyto24 and Zcyto25 to signal through the NF-κB signal transduction pathway was tested using a mouse monocyte/ macrophage reporter cell line. The present invention includes methods of reducing viral infections and increasing monocyte counts. The present invention also includes antibodies to the Zcyto20 polypeptides, and methods of producing the polynucleotides and polypeptides.

L25 ANSWER 12 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:610437 HCAPLUS

DOCUMENT NUMBER: 137:164737

TITLE: Death domain containing receptor-4, its cDNA and

protein sequences, and use thereof

INVENTOR(S): Ni, Jian; Rosen, Craig A.; Pan, James G.; Gentz,

Reiner L.; Dixit, Vishva M.

PATENT ASSIGNEE(S): Human Genome Sciences, Inc., USA; The Regents of the

University of Michigan

SOURCE: U.S., 91 pp., Cont.-in-part of U.S. 6,342,363.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO. DATE
US 6433147	B1	20020813	US 2000-565918 20000505
US 6342363	· B1	20020129	US 1998-13895 19980127
US 6461823	B1	20021008	US 1999-448868 19991124
US 2003108516	A1	20030612	US 2002-175902 20020621
US 2003036168	A1	20030220	US 2002-226296 20020823
US 2003073187	A1	20030417	US 2002-226318 20020823
PRIORITY APPLN. IN	FO.:		US 1997-35722P P 19970128
			US 1997-37829P P 19970205
			US 1998-13895 A2 19980127
			US 1999-132922P P 19990506
			US 1999-448868 A1 19991124
			US 2000-565918 A3 20000505

The present invention relates to novel Death Domain Containing Receptor-4 (DR4) proteins which are members of the tumor necrosis factor (TNF) receptor family. In particular, isolated nucleic acid mols. are provided encoding the human DR4 proteins. DR4 polypeptides are also provided as are vectors, host cells and recombinant methods for producing the same. The invention further relates to screening methods for identifying agonists and antagonists of DR4 activity and methods for using DR4 polynucleotides and polypeptides.

REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 13 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:575241 HCAPLUS

DOCUMENT NUMBER: 137:136137

TITLE: CUB domain-containing protein zcub3, their cDNA and

protein sequences and fusion protein

preparation, and use thereof

INVENTOR(S): Fox, Brian A.; Taft, David W.; Sheppard, Paul O.

PATENT ASSIGNEE(S): Zymogenetics, Inc., USA SOURCE: PCT Int. Appl., 91 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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APPLICATION NO.
                                                          DATE
    PATENT NO.
                     KIND DATE
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                                          WO 2002-US2298 20020123
                           20020801
    WO 2002059317
                      A2
                      A3
                           20031120
    WO 2002059317
            AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
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            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
            LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
            PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,
            UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
            CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
            BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                      A1 20030130
                                          US 2002-55228 20020123
    US 2003022316
                                       US 2001-263989P P 20010124
PRIORITY APPLN. INFO.:
```

The invention provides protein and cDNA sequences for several novel human CUB domain-containing protein zcub3s. The human zcub3 gene is located at chromosome 1p34.3 and its gene expression profile in various normal or cancerous cell lines or tissues is also provided. The protein motifs and various proteolytic cleavage sites are analyzed by searching sequence homol. in the database. Methods of preparing various zcub3 fusion proteins and assays for the functional studies of zcub3 are provided. The polypeptides and polynucleotides encoding them may be used within a variety of therapeutic, diagnostic, and research applications.

L25 ANSWER 14 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:521992 HCAPLUS

DOCUMENT NUMBER:

137:104797

TITLE:

Neuropilin homolog zcub5 from human and mouse, their

protein and cDNA sequences, and use thereof

INVENTOR(S):

Fox, Brian A.; Gao, Zeren; Shoemaker, Kimberly E.

PATENT ASSIGNEE(S): SOURCE:

Zymogenetics, Inc., USA PCT Int. Appl., 101 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATE	NT 1	NO.		KI	ND	DATE			A	PPLI	CATI	ON NO	0.	DATE				
							~-		_									
WO 2	002	0537	39	A	2	2002	0711		W	0 20	01-U	S455	42	2001	1115			
WO 2	WO 2002053739 C1					2003	0912											
1	W:	AE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,	
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	GM, HR, HU,		ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,			
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,	

PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2002192750 A1 20021219 US 2001-3132 20011115 PRIORITY APPLN. INFO.: US 2000-249004P P 20001115

The invention provides protein and cDNA sequences for novel neuropilin homolog zcub5 from human and mouse. The human zcub5 gene is located at chromosome 6q21 and its gene expression profile is also provided. The protein motifs and various proteolytic cleavage sites are analyzed by sequence homol. search in the database. The polypeptides and polynucleotides encoding them may be used within a variety of therapeutic, diagnostic, and research applications.

L25 ANSWER 15 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:461231 HCAPLUS

DOCUMENT NUMBER: 137:29090

TITLE: Protein and cDNA sequences of novel human and mouse

helical cytokine zalpha33

INVENTOR(S): Conklin, Darrell C.; Gao, Zeren

PATENT ASSIGNEE(S): Zymogenetics, Inc., USA

SOURCE: U.S., 41 pp. CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

APPLICATION NO. PATENT NO. KIND DATE DATE 20000614 B1 20020618 US 2000-593995 US 6406888 US 2003064479 A1 20030403 US 2002-139667 20020502 US 1999-139121P P 19990614 PRIORITY APPLN. INFO.: US 2000-593995 A3 20000614

AB Sequences of human and mouse helical cytokine zalpha33 are provided. The polypeptides comprise at least nine contiguous amino acid residues and may be prepared as polypeptide fusions comprise heterologous sequences, such as affinity tags. The polypeptides and polynucleotides encoding them may be used within a variety of therapeutic, diagnostic, and research applications.

REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 16 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:276475 HCAPLUS

DOCUMENT NUMBER: 136:274366

TITLE: Use of human RING finger protein zapop2 in cancer

diagnosis

INVENTOR(S): Venezia, Domenick R.; Taft, David W.; Whitmore,

Theodore E.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 50 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

US 2002042094 Al 20020411 US 2000-735368 20001212
PRIORITY APPLN. INFO.:

US 1999-171258P P 19991215

AB The present invention relates to polynucleotide and polypeptide mols. for zapop2, a novel human member of the RING finger protein group. The said protein contains a RING finger protein motif or an ankyrin repeat. The polypeptides, and polynucleotides encoding them, are expressed in specific human tissues, and may be used for detecting human genetic abnormalities. The present invention also includes antibodies to the zapop2 polypeptides and using these antibodies or oligonucleotide probes to zapop2 cDNA for cancer diagnosis.

L25 ANSWER 17 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:172076 HCAPLUS

DOCUMENT NUMBER: 136:211956

TITLE: Human interleukin-four induced protein

INVENTOR(S): Chu, Charles Chiyuan; Chavan, Sangeeta S.; Mason,

James M.

PATENT ASSIGNEE(S): North Shore-Long Island Jewish Research Institute, USA

SOURCE: PCT Int. Appl., 61 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

F	PATENT NO.					ND	DATE		APPLICATION NO. DATE									
_						A2 20020307				-		01	~~~~					
M	VO	20020	0182	/4	A.	2	2002	0307		W	0 20	0.1-0	5264	62	2001	0824		
V	OV	20020	0185	74	A.	3	2003	0123										
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			IL,	IN,	IS,	JP,	KP,	KR,	LC,	LK,	LR,	LT,	LV,	MG,	MK,	MN,	MX,	NO,
		NZ, PL,			RO,	SG,	SI,	SK,	SL,	TR,	TT,	UA,	UZ,	VN,	YU,	AM,	AZ,	BY,
		KG, KZ,			MD,	RU,	ТJ,	TM										
		RW: GH, GM,			KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,
			DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,
			BJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG	
P	UF	20010	08672	21	A.	5	2002	0313		A	U 20	01-8	6721		2001	0824		
Ţ	US 2003045688					1	2003	0306		U	S 20	01-9	3879	5	2001	0824		
PRIORI	PRIORITY APPLN. INFO				.:				Ī	US 2	000-	2278	18P	P	2000	0825		
								1	WO 2	001-	US26	462	W	2001	0824			

The invention provides the DNA sequence for human gene Fig1, which encodes AB an immediate-early interleukin-four induced protein with L-amino acid oxidase activity, and use of said DNA sequence in recombinant production of said protein. The invention relates that human gene Fig1 maps to chromosome 19q13.3-19q13.4, a hot-spot region for susceptibility to immune-related disorders, and contains 8 exons. The invention also provides: (a) constructs, vectors and hosts comprising such DNA sequence; (b) an oligonucleotide probe which hybridizes to said sequence; (c) an antisense oligonucleotide specific for human gene Figl; and (d) a nucleotide encoding a fluorescent protein-gene Figl fusion protein. The invention further provides the amino acid sequence of gene Figl IL-4 induced L-amino acid oxidase, and relates that the protein is obtained from IL-4-induced B cells, contains a signal peptide, and shows less than 80% homol. to the mouse gene Fig1 protein. Still further, the invention provides a method for the production of anti-gene Fig1 protein specific antibodies in immunized animals, and use of said antibodies in purifying gene Figl proteins. Finally, the invention provides: (a) a method for diagnosing an immune-related disorder or susceptibility to said disorder which involves looking for

mutations/polymorphisms in human gene Figl; (b) compns. comprising said gene Fig1 DNA sequence, antisense oligonucleotide, or gene Fig1 protein antagonist, which can be used in the manufacture of medicament for treatment or prevention of an immune-related disorder, cancer or fungal or bacterial infection; and (c) a method for detecting an L-amino acid in a sample using said gene Fig1 protein. In the examples section, the invention discussed that recombinant mouse gene Figl L-amino acid oxidase prefers aromatic amino acids, with phenylalanine being the optimal substrate, and that the recombinant enzyme causes significant cell death.

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L25 ANSWER 18 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
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ACCESSION NUMBER:

2002:31509 HCAPLUS

DOCUMENT NUMBER:

136:80946

TITLE:

Mammalian secreted proteins

derived from human tissues and their encoding cDNA

DATE

sequences

INVENTOR(S):

Sheppard, Paul O.; Presnell, Scott R.

PATENT ASSIGNEE(S): SOURCE:

Zymogenetics, Inc., USA PCT Int. Appl., 397 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

KIND DATE

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

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APPLICATION NO.
    WO 2002002621 A2
                                          WO 2001-US20638 20010628
                           20020110
                      A3
                           20020815
    WO 2002002621
            AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
            LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
            RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,
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            BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
    US 2002110855
                    A1 20020815 US 2001-893737 20010628
    US 2002086367
                           20020704
                                          US 2001-895836
                                                           20010629
                      A1
                           20020620
                                          US 2001-897214
                                                           20010702
    US 2002076779
                      A1
    US 2002164688
                                          US 2001-897878
                      A1
                           20021107
                                                           20010702
                                       US 2000-215446P P 20000630
PRIORITY APPLN. INFO.:
    The present invention provides 164 human-derived cDNAs and
AB
    secreted proteins encoded by the cDNAs. Also provided
    are tissue expression profiles, hexapeptide epitope fragments, and
    chromosomal assignments of these nucleic acids and secreted
    proteins. The proteins include a variety of fusion
    proteins, including fusions comprising a signal
    peptide operably linked to a second polypeptide. The invention
    further provides therapeutic and diagnostic methods utilizing the
    polynucleotides, polypeptides, and antagonists of the
    polypeptides.
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L25 ANSWER 19 OF 40
                     HCAPLUS COPYRIGHT 2004 ACS on STN
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ACCESSION NUMBER:

2002:10526 HCAPLUS

DOCUMENT NUMBER:

136:80902

TITLE:

Cerebellin-like protein LP232 and cDNA and therapeutic

uses in neurological disorders thereof

INVENTOR(S):

Su, Eric Wen

PATENT ASSIGNEE(S):

SOURCE:

Eli Lilly and Company, USA

PCT Int. Appl., 116 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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KIND DATE
                                         APPLICATION NO.
                                                          DATE
     PATENT NO.
    WO 2002000709 A2
                           20020103
                                          WO 2001-US14843 20010611
                      A3
    WO 2002000709
                           20020620
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            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
            LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
            RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,
            UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
            DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
            BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                           20030402 EP 2001-944121
                      A2
                                                          20010611
    EP 1297008
           AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
                    A1 20031120
                                          US 2002-297002
                                                          20021126
    US 2003216547
PRIORITY APPLN. INFO.:
                                       US 2000-213944P P 20000623
                                       WO 2001-US14843 W 20010611
```

The invention provides protein and cDNA sequences for human AB cerebellin-like protein LP232. Vectors, host cells, chimeric proteins and transgenic mammals comprising LP232 polynucleotides and/or polypeptides, as well as methods of making and using thereof, and LP232-specific antibodies are included in the present invention. As an important protein selectively expressed in certain neural tissues, LP232 gene or protein related products might be useful for the treatment of neurol. disorders.

L25 ANSWER 20 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:916378 HCAPLUS

DOCUMENT NUMBER:

136:49395

TITLE: INVENTOR(S): Secreted salivary zsig63 polypeptide Adler, David A.; Sheppard, Paul O.

PATENT ASSIGNEE(S):

Zymogenetics, Inc., USA

SOURCE:

U.S., 29 pp.

DOCUMENT TYPE:

CODEN: USXXAM

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATE	ENT NO.	KIND	DATE	APPLICATION NO	٥.	DATE
US 2 US 2 US 2	331413 2002081701 2002090677 2002173027 APPLN. INFO.	B1 A1 A1 A1	20011218 20020627 20020711 20021121	 US 2000-527343 US 2001-922486 US 2001-92323 US 2001-922466 1999-124820P 2000-527345	0 6 9 P	20000317 20010803 20010803 20010803 19990317 20000317

The invention provides a human polynucleotide (cDNA) encoding a ABprotein designated zsig63, which is presented as a novel secreted salivary protein. The invention relates that the human zsig63

gene maps to chromosome 4q12-4q13. The invention also relates that the human zsig63 protein consists of 219-amino acids, including a signal peptide (amino acids (aa) 1-15), and three domains (aa 16-37, 38-126 and 127-219). The invention further relates that the 3rd domain (aa 127-219) contains a region rich in coil-like structures, with 16 fully evenly spaced coil-like repeats. The invention also provides an expression vector containing said zsig63 polynucleotide linked to a promoter and transcription terminator, and use of vector in recombinant production of zsig63. The invention further provides a DNA construct encoding a fusion protein, wherein said construct is composed of a nucleotide sequence encoding the human zsig63 protein linked to a nucleotide sequence encoding a second protein. Finally, the invention provides the cDNA sequence, as well as amino acid sequence of the human zsig63 protein, as well as a degenerate cDNA sequence for zsig63. The invention mentioned that zsig63 gene mRNA was detected in the salivary gland and trachea. The invention also suggested that the zsig63 protein is a novel host-defense protein, and could potentially be used as an anti-microbial protein. THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 1

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 21 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:904275 HCAPLUS

DOCUMENT NUMBER:

136:36309

TITLE:

Novel leader peptides for enhancing secretion

of recombinant proteins from host cells

INVENTOR(S): Chen, Tseng-hui T.; Schmidt, Brian

PATENT ASSIGNEE(S): Corixa Corporation, USA SOURCE: PCT Int. Appl., 48 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE: EI FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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PATENT NO. KIND DATE
                                          APPLICATION NO. DATE
    WO 2001094418 A2 20011213
                                           WO 2001-US18222 20010605
    WO 2001094418
                            20020926
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            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
            LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
            RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,
            UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
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            BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     US 2002072093
                       A1
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                                           US 2001-875494
                                                            20010605
                      A2
                                           EP 2001-941959
                            20030312
   EP 1290197
                                                            20010605
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
     JP 2004510410
                       T2
                            20040408
                                           JP 2002-501966
                                                            20010605
PRIORITY APPLN. INFO.:
                                        US 2000-209517P
                                                       P 20000605
                                        WO 2001-US18222 W
                                                           20010605
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AB Novel synthetic leader peptides have been identified. The leader peptides have use in a method of enhancing the secretion of a recombinant polypeptide produced in a host cell. **Polynucleotides** encoding the novel leader peptides and a method of designing the **polynucleotides** are described.

L25 ANSWER 22 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN

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2001:676948 HCAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                         135:237656
                         Full-length human expressed polynucleotides
TITLE:
                         and the polypeptides they encode
INVENTOR(S):
                         Conklin, Darrell C.; Presnell, Scott R.; Adler, David
                         ZymoGenetics, Inc., USA
PATENT ASSIGNEE(S):
                         PCT Int. Appl., 220 pp.
SOURCE:
                         CODEN: PIXXD2
                         Patent
DOCUMENT TYPE:
                        English
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                            DATE
                                          APPLICATION NO. DATE
     PATENT NO.
                      KIND
                      A2
                                           WO 2001-US7192
                                                           20010305
     WO 2001066748
                            20010913
    WO 2001066748
                            20020321
                       A3
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             RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN,
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                            20020704
                       A1
                                           US 2001-800095
                                                            20010305
     US 2002086988
PRIORITY APPLN. INFO.:
                                        US 2000-187221P P 20000303
     The present invention provides 61 human polynucleotides and the
AB
     secreted proteins (designated AFP proteins)
     encoded by these polynucleotides. Sequence anal. predicts that
     each of the encoded proteins includes an N-terminal secretory peptide.
     The AFP proteins are produced in Escherichia coli using a His6
     tag/maltose-binding protein double affinity fusion system. Tissue
     expression profiles, antigenic epitope-bearing peptides, and relative
     chromosomal localization are also provided. The proteins include a
     variety of fusion proteins, including fusions
     comprising a signal peptide selected from the group
     consisting of signal peptides, operably linked to a
     second polypeptide. The invention further provides therapeutic and
     diagnostic methods utilizing the polynucleotides, polypeptides,
     and antagonists of the polypeptides.
L25 ANSWER 23 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
                         2001:435123 HCAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                         135:56911
                         Protein and cDNA sequences of a novel human
TITLE:
                         cadherin-like asymmetry protein-3 (CLASP-3) and its
                         uses in modulating an immune responses
                         Lu, Peter; Garman, Jonathan David; Candia, Albert
INVENTOR(S):
                         Frederick Iii
PATENT ASSIGNEE(S):
                         Arbor Vita Corporation, USA
                         PCT Int. Appl., 189 pp.
SOURCE:
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
                         English
LANGUAGE:
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FAMILY ACC. NUM. COUNT:

11

PATENT INFORMATION:

SOURCE:

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APPLICATION NO.
                                                          DATE
                      KIND DATE
     PATENT NO.
                                           WO 2000-US34171 20001213
                            20010614
    WO 2001042297
                      Α2
                            20020103
     WO 2001042297
                       Α3
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    WO 2001042297
                            20020725
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         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.:
                                        US 1999-170453P A1 19991213
                                        US 2000-176195P A1 20000114
                                        US 2000-182296P A1 20000214
                                        US 2000-196267P A1 20000411
                                        US 2000-196460P A1 20000411
                                        US 2000-196527P A1 20000411
                                        US 2000-196528P A1 20000411
                                        US 2000-547276 · A1 20000411
                                        US 2000-240503P A1 20001013
                                        US 2000-240508P A1 20001013
                                        US 2000-240539P A1 20001013
                                        US 2000-240543P A1 20001013
    The present invention relates to a cell surface mol., designated
AΒ
     cadherin-like asymmetry protein-3 (CLASP-3). The CLASP-3 protein that is
     a type I transmembrane glycoprotein containing an endodomain that
     displays the appropriate properties to organize the cytoskeleton and
     signal transduction apparatus of the immune pathway, functions in T cells and B
     cells as well as non-immune cells, and is believed to be a component of
     the lymphocyte organelle called the "immune gateway" that creates a
     docking site or portal for cell-cell contact during antigen-presentation.
     Full-length CLASP-3 contains an signal peptide,
     extracellular domain, transmembrane domain,
     intracellular domain, ITAM (immunoreceptor tyrosine-based activation
    motifs), 2 coiled-coil domains, a PDZ domain and a new DOCK motif which
     includes a series of 5 tyrosines surrounded by conserved sequences and 2
     highly conserved on-tyrosine-containing regions separated by 9 amino acids.
     CLASP-3 is expressed strongly in kidney and heart, and less strongly in
     placenta and skeletal muscle, and slightly in liver and brain.
     particular, the present invention relates to CLASP-3
    polynucleotides, polypeptides, fusion proteins
     , and antibodies. The invention also relates to methods of modulating an
     immune response by interfering with CLASP-3 function.
                      HCAPLUS COPYRIGHT 2004 ACS on STN
L25 ANSWER 24 OF 40
ACCESSION NUMBER:
                         2001:435122 HCAPLUS
                         135:56910
DOCUMENT NUMBER:
                         Protein and cDNA sequences of a novel human
TITLE:
                         cadherin-like asymmetry protein-5 (CLASP-5) and its
                         uses in modulating an immune responses
                         Lu, Peter; Garman, Jonathan David; Candia, Albert
INVENTOR(S):
                         Frederick Iii
                         Arbor Vita Corporation, USA
PATENT ASSIGNEE(S):
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PCT Int. Appl., 188 pp.

CODEN: PIXXD2

APPLICATION NO.

DOCUMENT TYPE: LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT: 11

PATENT INFORMATION:

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PATENT NO.
                     KIND
                            DATE
                                                            DATE
                      A2
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    WO 2001042296
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                      A3
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     WO 2001042296
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            LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,
            SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA,
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PRIORITY APPLN. INFO.:
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                                        US 2000-176195P A1 20000114
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                                        US 2000-196267P A1 20000411
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                                        US 2000-196528P A1 20000411
                                        US 2000-547276
                                                        A1 20000411
                                        US 2000-240503P A1 20001013
                                        US 2000-240508P A1 20001013
                                        US 2000-240539P A1 20001013
                                        US 2000-240543P A1 20001013
    The present invention relates to a cell surface mol., designated
AB
    cadherin-like asymmetry protein-5 (CLASP-5). The CLASP-5 protein that is
     a type I transmembrane glycoprotein containing an endodomain that
     displays the appropriate properties to organize the cytoskeleton and
```

signal transduction apparatus of the immune pathway, functions in T cells and B cells as well as non-immune cells, and is believed to be a component of the lymphocyte organelle called the "immune gateway" that creates a docking site or portal for cell-cell contact during antigen-presentation. Full-length CLASP-5 contains an signal peptide,

extracellular domain, transmembrane domain,

intracellular domain, ITAM (immunoreceptor tyrosine-based activation motifs), 2 coiled-coil domains, a PDZ domain and a new DOCK motif which includes a series of 5 tyrosines surrounded by conserved sequences and 2 highly conserved on-tyrosine-containing regions separated by 9 amino acids. CLASP-5 gene, which is mapped on human chromosome 9p24.3, is expressed in thymus, spleen, kidney, placenta and peripheral blood lymphocytes, and less strongly in liver, and slightly in hematopoietic cell lines (MV4-11, HL60 and 9D10). In particular, the present invention relates to CLASP-5 polynucleotides, polypeptides, fusion proteins

, and antibodies. The invention also relates to methods of modulating an immune response by interfering with CLASP-5 function.

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L25 ANSWER 25 OF 40
                    HCAPLUS COPYRIGHT 2004 ACS on STN
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2001:435121 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 135:56909

TITLE: Protein and cDNA sequences of a novel human

cadherin-like asymmetry protein-7 (CLASP-7) and its

uses in modulating an immune responses

Lu, Peter; Garman, Jonathan David; Candia, Albert INVENTOR(S):

Frederick, III

PATENT ASSIGNEE(S):

Arbor Vita Corporation, USA

SOURCE:

PCT Int. Appl., 151 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

1. 11

FAMILY ACC. NUM. COUNT: 11

PATENT INFORMATION:

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KIND
                            DATE
                                           APPLICATION NO.
     PATENT NO.
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                                           WO 2000-US34152
     WO 2001042295
                       A2
                            20010614
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                       A3
     WO 2001042295
                            20020321
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             LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,
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PRIORITY APPLN. INFO.:
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                                                        A1 20000411
                                        US 2000-196460P A1 20000411
                                        US 2000-196527P A1 20000411
                                        US 2000-196528P A1 20000411
                                        US 2000-547276
                                                         A1 20000411
                                        US 2000-240503P A1 20001013
                                        US 2000-240508P A1 20001013
                                        US 2000-240539P A1 20001013
                                        US 2000-240543P A1 20001013
     The present invention relates to a cell surface mol., designated
ΑB
     cadherin-like asymmetry protein-7 (CLASP-7). The CLASP-7 protein that is
     a type I transmembrane glycoprotein containing an endodomain that
     displays the appropriate properties to organize the cytoskeleton and
     signal transduction apparatus of the immune pathway, functions in T cells and B
```

cells as well as non-immune cells, and is believed to be a component of the lymphocyte organelle called the "immune gateway" that creates a docking site or portal for cell-cell contact during antigen-presentation. Full-length CLASP-7 contains an signal peptide, extracellular domain, transmembrane domain, intracellular domain, ITAM (immunoreceptor tyrosine-based activation motifs), 2 coiled-coil domains, a PDZ domain and a new DOCK motif which includes a series of 5 tyrosines surrounded by conserved sequences and 2 highly conserved on-tyrosine-containing regions separated by 9 amino acids. CLASP-7 gene, which is mapped on human chromosome 19q13.2, is expressed strongly in kidney, skeletal muscle, liver, small intestine, placenta, lung and heart, and slightly in small intestine and brain, barely in colon, thymus, spleen and peripheral blood lymphocytes. In particular, the present invention relates to CLASP-7 polynucleotides, polypeptides, fusion proteins, and antibodies. The invention also relates to methods of modulating an immune response by interfering with CLASP-7 function.

L25 ANSWER 26 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2001:435120 HCAPLUS

DOCUMENT NUMBER:

135:56908

TITLE:

Protein and cDNA sequences of a novel human

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cadherin-like asymmetry protein-4 (CLASP-4) and its
                         uses in modulating an immune responses
                         Lu, Peter; Garman, Jonathan David; Candia, Albert
INVENTOR(S):
                         Frederick Iii
                         Arbor Vita Corporation, USA
PATENT ASSIGNEE(S):
SOURCE:
                         PCT Int. Appl., 172 pp.
                         CODEN: PIXXD2
                         Patent
DOCUMENT TYPE:
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT:
                         11
PATENT INFORMATION:
     PATENT NO.
                                            APPLICATION NO.
                      KIND
                            DATE
                                                             DATE
                                           WO 2000-US34151
     WO 2001042294
                       A2
                            20010614
                                                             20001213
                            20020103
     WO 2001042294
                       A3
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             CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU,
             ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,
             LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,
             SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA,
             ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     EP 1238078
                            20020911
                                            EP 2000-986460
                       A2
                                                             20001213
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
PRIORITY APPLN. INFO.:
                                         US 1999-170453P
                                                             19991213
                                                             20000114
                                         US 2000-176195P
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                                                             20000411
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                                         US 2000-196460P
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                                                             20000411
                                         US 2000-547276
                                                            20000411
                                                             20001013
                                         US 2000-240503P
                                         US 2000-240508P
                                                             20001013
                                         US 2000-240539P
                                                             20001013
                                         US 2000-240543P P 20001013
                                         WO 2000-US34151 W 20001213
     The present invention relates to a cell surface mol., designated
AB
     cadherin-like asymmetry protein-4 (CLASP-4). The CLASP-4 protein that is
     a type I transmembrane glycoprotein containing an endodomain that
     displays the appropriate properties to organize the cytoskeleton and
     signal transduction apparatus of the immune pathway, functions in T cells and B
     cells as well as non-immune cells, and is believed to be a component of
     the lymphocyte organelle called the "immune gateway" that creates a
     docking site or portal for cell-cell contact during antigen-presentation.
     Full-length CLASP-4 contains an signal peptide,
```

extracellular domain, transmembrane domain, intracellular domain, ITAM (immunoreceptor tyrosine-based activation motifs), 2 coiled-coil domains, a PDZ domain and a new DOCK motif which includes a series of 5 tyrosines surrounded by conserved sequences and 2 highly conserved on-tyrosine-containing regions separated by 9 amino acids. CLASP-4 gene, which is mapped on human chromosome Xq22.3, is expressed strongly in peripheral blood lymphocytes, slightly in lung, placenta, small intestine, liver, kidney, spleen, thymus, heart and animal cell lines including Jurkat (T-cell derived), MV4-11, 9D10 and 293. In particular, the present invention relates to CLASP-4

polynucleotides, polypeptides, fusion proteins

, and antibodies. The invention also relates to methods of modulating an immune response by interfering with CLASP-4 function.

L25 ANSWER 27 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN

2001:300874 HCAPLUS ACCESSION NUMBER:

134:321582 DOCUMENT NUMBER:

TITLE: DNA and protein sequences of human

secretory proteins (AFP

protein) and their uses in diagnosis and

APPLICATION NO. DATE

therapeutics

Conklin, Darrell C.; Yee, David P. INVENTOR(S):

KIND DATE

Zymogenetics, Inc., USA PATENT ASSIGNEE(S): PCT Int. Appl., 617 pp. SOURCE:

CODEN: PIXXD2 Patent

DOCUMENT TYPE: English LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

	WO	2001	0292	21	A	2	2001	0426		W	0 20	00-U	S290.	52	2000	1020		
	WO	2001	0292	21	A	3	2002	0124										
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			LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,
			SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,	UG,	UZ,	VN,	YU,	ZA,	ZW,
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			DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	BJ,
			CF,	CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG			
PRIO	RITY	APP:	LN.	INFO	.:				į	US 1	999-	1607	12P	Р	1999	1020		
AB		-				-	rovides polynucleotide sequences and la human secretory proteins											
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	-			_	-			_	genes used for antigens. The invention and diagnostic methods utilizing the								on	
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	bol	ypep	tides	s.														

L25 ANSWER 28 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN

2001:31642 HCAPLUS ACCESSION NUMBER:

134:96275 DOCUMENT NUMBER:

TITLE: Cloning and cDNA sequence of a novel human

secreted Clq-domain protein zacrp4

and therapeutic uses

INVENTOR(S): Holloway, James L.; Lok, Si ZymoGenetics, Inc., USA PATENT ASSIGNEE(S): PCT Int. Appl., 82 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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KIND DATE
                                          APPLICATION NO.
     PATENT NO.
                                                            DATE
                                          WO 2000-US17692 20000628
                     A2 20010111
    WO 2001002565
                      A3
                            20010419
    WO 2001002565
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR,
            CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU,
            ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,
            LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,
            SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW,
            AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
            DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
            CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                          EP 2000-944929
                            20020403
    EP 1192252
                      A2
                                                            20000628
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     JP 2003504022
                                                            20000628
                      T2
                           20030204
                                          JP 2001-508337
PRIORITY APPLN. INFO.:
                                       US 1999-346502
                                                        A 19990701
                                       WO 2000-US17692 W 20000628
```

The present invention relates to polynucleotide and polypeptide mols. for zacrp4, a secreted protein having tandem Clq globular domains. Zacrp4 is highly expressed in neuronal and reproductive tissues and may be used in the study cell-cell communication and the regulation of cellular processes therein. Zacrp4 gene was mapped to the human chromosome 11q11 region around the marker D11S1350. The present invention also includes antibodies to the zacrp4 polypeptides.

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L25 ANSWER 29 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
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ACCESSION NUMBER: 2000:608923 HCAPLUS

DOCUMENT NUMBER: 133

133:203819

TITLE:

Sequences for improving the efficiency of

secretion of non-secreted

proteins from mammalian and insect cells

INVENTOR(S): Iatrou, Kostas; Farrell, Patrick J.; Behie, Leo A. PATENT ASSIGNEE(S): University Technologies International Inc., Can.

SOURCE: PCT Int. Appl., 53 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE: E FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO. KIND DATE									A.	PPLI	CATI	N NC	ο.	DATE			
WO	2000	0506	16	 A:	2	2000	0831		W	20	00-C	A188		2000	0223		
WO	2000	05063	16	A.	3	2001	0125					•					
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		CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG				
CA 2360847 AA 2											CA 2000-2360847 20000223						
EP 1157120		A:	2	2001	1128		E	P 20	00-9	0610	3	2000	0223				
									, GB, GR, IT, LI, LU, NL, SE, MC, 1								

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IE, SI, LT, LV, FI, RO
     US 2003027257 A1 20030206
                                         US 2002-83590 20020227
PRIORITY APPLN. INFO.:
                                       US 1999-256694 A 19990224
                                       US 1997-56871P P 19970821
                                       US 1998-136421 A2 19980820
                                       WO 2000-CA188 W 20000223
    An expression cassette is disclosed which is useful for the
AB
     secretion of a heterologous protein from mammalian and
     insect cells. The expression cassette comprises a polynucleotide
     sequence encoding a secretion competent polypeptide which is linked in
     frame to a heterologous gene sequence. Particularly preferred as
     secretion competent polypeptides are juvenile hormone esterase or
     granulocyte/macrophage colony-stimulating factor. Also disclosed is a
    method of secreting heterologous proteins in mammalian
     and insect cells using the expression cassette.
L25 ANSWER 30 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
                        1999:405083 HCAPLUS
                        131:40596
DOCUMENT NUMBER:
                        Extended cDNA sequences for secreted
TITLE:
                        proteins identified from human brain tissues
                        Bougueleret, Lydie; Duclert, Aymeric; Dumas Milne
INVENTOR(S):
                        Edwards, Jean-Baptiste
                        Genset, Fr.
PATENT ASSIGNEE(S):
                        PCT Int. Appl., 516 pp.
SOURCE:
                        CODEN: PIXXD2
                        Patent
DOCUMENT TYPE:
                        English
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
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PATENT NO. KIND DATE
                                          APPLICATION NO. DATE
                   A2 19990624
                                          WO 1998-IB2122 19981217
    WO 9931236
    WO 9931236 A3 19990910
        W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
            DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
            KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW,
            MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR,
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            CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
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                                          AU 1999-15030
                                                           19981217
                      A1
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                      A2
                           20000927
                                          EP 1998-959117
                                                           19981217
    EP 1037977
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
                           20020319
                                          JP 2000-539136 .
    JP 2002508182
                      T2
                                                           19981217
    US 2003162176
                           20030828
                                                           20010711
                      A1
                                          US 2001-903190
PRIORITY APPLN. INFO.:
                                      · US 1997-69957P
                                                           19971217
                                       US 1998-74121P
                                                          19980209
                                       US 1998-81563P
                                                          19980413
                                       US 1998-96116P
                                                          19980810
                                       US 1998-99273P
                                                        P 19980904
                                       WO 1998-IB2122
                                                        W 19981217
                                       US 1999-247155
                                                        A3 19990209
```

The sequences of 237 cDNAs derived from mRNAs encoding human

secreted proteins expressed in the brain are disclosed.

AB

Chemical and enzymic methods of obtaining mRNAs with intact 5' ends are described: (1) a chemical modification method involving derivatization of the 5' ends of the mRNAs and selection of the derivatized mRNAs, and (2) treatment with alkaline phosphatase to remove the phosphate groups present on the 5' ends of uncapped incomplete mRNAs and treatment with a decapping enzyme such as T4 polynucleotide kinase or tobacco acid pyrophosphatase to remove the cap present on full-length mRNAs. ESTs are screened to identify those having an uninterrupted open reading frame longer than 45 nucleotides beginning with an ATG codon and extending to the end of the EST, and then search to identify potential signal motifs with a score of at least 3.5 in the Von Heijne signal peptide identification matrix. The 5' ESTs are used to obtain the corresponding extended cDNAS. The 5' ESTs and extended cDNAs may also be used in diagnostic, forensic, gene therapy, and chromosome mapping procedures. Upstream regulatory sequences may also be obtained. The nucleic acid sequences may also be used to design expression vectors and secretion vectors.

L25 ANSWER 31 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1999:375666 HCAPLUS

DOCUMENT NUMBER: 131:29122

TITLE: Cloning and cDNA sequence encoding a human thyroid

secreted protein zsig45

INVENTOR(S): Sheppard, Paul O.; Deisher, Theresa A.

PATENT ASSIGNEE(S): Zymogenetics, Inc., USA SOURCE: PCT Int. Appl., 135 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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PATENT NO.
                     KIND DATE
                                          APPLICATION NO. DATE
                           19990610
    WO 9928467 A1
                                          WO 1998-US25454 19981201
         W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
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            KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
            NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
            UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
            FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
            CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
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                                                           19981201
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                      AΑ
    AU 9915405
                           19990616
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                           20001011
                                          EP 1998-959647
    EP 1042465
                      A1
                                                           19981201
           AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, FI
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                                                           19981201
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                                          NO 2000-2832
                                                          20000602
                      Α
PRIORITY APPLN. INFO .:
                                                       A 19971203
                                       US 1997-984638
                                       WO 1998-US25454 W 19981201
```

The present invention relates to **polynucleotide** and polypeptide mols. for zsig45, a novel human protein strongly expressed in thyroid and pituitary gland. The novel zsig45 polypeptide was initially identified by querying an EST database for secretory signal sequences in an effort to select for **secreted proteins**. The full-length cDNA encodes a protein with no apparent homolog relationship to known proteins, suggesting a completely novel protein that may be a member of a new protein family. Moreover, the signal sequence, predicted small size (8)

kDa, without post-translational modification), tissue-specific expression, certain novel motifs, and lack of long hydrophobic segments in the mature protein, suggests a small secreted mol. with potential as a new class of secreted cytokine-like or protein hormone-like mols. The gene maps to the 2q37.3 region on human chromosome The polypeptides, and polynucleotides encoding them, may be used for detecting human disease states and chromosomal abnormalities, and as a therapeutic. The present invention also includes antibodies to the zsig45 polypeptides.

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 32 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1999:233993 HCAPLUS

DOCUMENT NUMBER: 130:263155
TITLE: Cloning and cDNA sequence of human secreted

protein ZSIG-11
Sheppard, Paul 0.

INVENTOR(S):

SOURCE:

PATENT ASSIGNEE(S): Zymogenetics, Inc., USA PCT Int. Appl., 113 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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PATENT NO. KIND DATE APPLICATION NO. DATE
                          19990408
                                        WO 1998-US20449 19980929
    WO 9916870 A1
        W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
            DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG,
            KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
            NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
            UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
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            CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                   AU 1998-95922
               A1 19990423
    AU 9895922
                                                        19980929
    CN 1234396
                    Α
                          19991110
                                        CN 1999-104932
                                                        19990409
                                     US 1997-60327P
                                                      P 19970929
PRIORITY APPLN. INFO.:
                                     US 1997-939897
                                                      A 19970929
                                     US 1998-81310
                                                     A 19980519
                                     US 1998-85966P
                                                      P 19980519
                                     WO 1998-US20449 W 19980929
```

A novel secreted polypeptide designated ZSIG-11, polynucleotides AB encoding the polypeptide, and related compns., antibodies and methods are disclosed. ZSIG-11 was initially identified by querying a human expressed sequence tag database for secretory signal sequences. ZSIG-11 is 313 amino acids in length, including a 25-residue signal sequence, with no homol. to any known protein. Northern blot anal. identified a predominant 1.8-kb transcript in testis, prostate, thyroid, and heart, with lesser moderate levels in skeletal muscle, pancreas, small intestine, peripheral blood lymphocytes, brain, placenta, liver, kidney, thymus, ovary, colon, spinal cord, trachea, and adrenal gland. Three transcripts of 5, 2, and 1.5-kb were detected in the human osteogenic cell lines HOS, MG-63, Sa052, and U206. ZSIG-11 maps 252.51 cR 3000 from the top of the human chromosome 20 linkage group on the WICGR radiation hybrid map. invention also provides vector systems for expression of ZSIG-11 in mammalian, baculovirus-infected, and Pichia methanolica cells, detection by hybridization probes or antibody immunoassays, and for treatment of

associated diseases.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 33 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1999:113806 HCAPLUS

DOCUMENT NUMBER: 130:178373

TITLE: 5'-Expressed sequence tags for secreted

proteins identified from human muscle and

other mesodermal tissues

INVENTOR(S): Dumas Milne Edwards, Jean-Baptiste; Duclert, Aymeric;

Lacroix, Bruno

PATENT ASSIGNEE(S): Genset, Fr.

SOURCE: PCT Int. Appl., 622 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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APPLICATION NO.
               KIND DATE
                                                        DATE
    PATENT NO.
                   A2 19990211
                                        WO 1998-IB1238 19980731
    WO 9906554
    WO 9906554
                    A3
                          19990527
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            DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG,
            KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
            NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
            UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
            FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
            CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                     A1
                          19990222
                                   AU 1998-85557
                                                         19980731
    AU 9885557
                          20000517
               A2
                                   EP 1998-936596
                                                        19980731
    EP 1000152
          AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, FI
    JP 2001512016
                     T2
                          20010821 JP 2000-505295
                                                         19980731
                          20031203 EP 2003-16881
                                                         19980731
    EP 1367124
                     A1
          AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, FI, CY
                                                      A 19970801
                                      US 1997-905134
PRIORITY APPLN. INFO.:
                                      EP 1998-936596 A3 19980731
                                                      W 19980731
                                      WO 1998-IB1238
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The sequences of the 5' ends of 268 expressed sequence tags (ESTs) derived ΑB from mRNAs encoding human secreted proteins expressed in the muscle and other mesodermal tissues are disclosed. Chemical and enzymic methods of obtaining mRNAs with intact 5' ends are described: (1) a chemical modification method involving derivatization of the 5' ends of the mRNAs and selection of the derivatized mRNAs, and (2) treatment with alkaline phosphatase to remove the phosphate groups present on the 5' ends of uncapped incomplete mRNAs and treatment with a decapping enzyme such as T4 polynucleotide kinase or tobacco acid pyrophosphatase to remove the cap present on full-length mRNAs. The 5' ESTs are screened to identify those having an uninterrupted open reading frame longer than 45 nucleotides beginning with an ATG codon and extending to the end of the EST, and then search to identify potential signal motifs with a score of at least 3.5 in the Von Heijne signal peptide identification matrix. The 5' ESTs may be to obtain cDNAS, and genomic DNAs corresponding to the 5' ESTs. The 5' ESTs may also be used in diagnostic, forensic, gene therapy, and chromosome mapping procedures.

Upstream regulatory sequences may also be obtained using the 5' ESTs. The 5' ESTs may also be used to design expression vectors and secretion vectors.

L25 ANSWER 34 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN

1999:113805 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 130:178372

5'-Expressed sequence tags for secreted TITLE:

proteins identified from various human tissues

Dumas Milne Edwards, Jean-Baptiste; Duclert, Aymeric; INVENTOR(S):

Lacroix, Bruno

Genset, Fr. PATENT ASSIGNEE(S):

PCT Int. Appl., 411 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.				KI	ND	DATE APPLICATI					CATI	ои ис	٥.	DATE			
		9906 9906								W	0 19	98-I	B123	7	1998	0731		
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		RW:	-	•			MW,		-	•	•	•	-	-	_	-	-	
		2,,,,	•	•	•	•	IE,	•	•	•	•	•	•	•	-	•	•	•
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	AU	9885	•		•	•		•	•	•	•		5556		1998	0731		
	EP	1000	151		A.	2	20000	0517		E.	P 19	98-9	3659	5	1998	0731		
		R:	AT,	ΒĒ,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
			IE,	FI														
	JP	2002	52502	24	T	2	20020	0813		J.	P 200	00-5	05294	1	1998	0731		
	ΕP	1375	514		A2	2	20040	0102		E	P 200	03-1	6497		1998	0731		
		R:	-	•	•	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
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ved from mRNAs encoding human secreted proteins expressed in various tissues are disclosed. Chemical and enzymic methods of obtaining mRNAs with intact 5' ends are described: (1) a chemical modification method involving derivatization of the 5' ends of the mRNAs and selection of the derivatized mRNAs, and (2) treatment with alkaline phosphatase to remove the phosphate groups present on the 5' ends of uncapped incomplete mRNAs and treatment with a decapping enzyme such as T4 polynucleotide kinase or tobacco acid pyrophosphatase to remove the cap present on full-length mRNAs. The 5' ESTs are screened to identify those having an uninterrupted open reading frame longer than 45 nucleotides beginning with an ATG codon and extending to the end of the EST, and then search to identify potential signal motifs with a score of at least 3.5 in the Von Heijne signal peptide identification matrix. ESTs may be to obtain cDNAS, and genomic DNAs corresponding to the 5' ESTs. The 5' ESTs may also be used in diagnostic, forensic, gene therapy, and chromosome mapping procedures. Upstream regulatory sequences may also be obtained using the 5' ESTs. The 5' ESTs may also be used to design

expression vectors and secretion vectors.

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L25 ANSWER 35 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
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ACCESSION NUMBER: 1999:113804 HCAPLUS

DOCUMENT NUMBER: 130:192760

TITLE: 5'-Expressed sequence tags for secreted

proteins identified from human brain tissues

INVENTOR(S): Dumas Milne Edwards, Jean-Baptiste; Duclert, Aymeric;

Lacroix, Bruno

PATENT ASSIGNEE(S): Genset, Fr.

SOURCE: PCT Int. Appl., 581 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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KIND DATE
                                           APPLICATION NO.
    PATENT NO.
                            19990211
                       A2
                                           WO 1998-IB1236
                                                             19980731
    WO 9906552
                       A3
    WO 9906552
                            19990422
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             DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG,
             KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
             NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
             UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
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             FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
             CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
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                                           US 1997-905223
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                                                            19980731
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                       A2
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                                           EP 1998-936594
                                                             19980731
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                                           JP 2000-505293
                                                             19980731
PRIORITY APPLN. INFO.:
                                        US 1997-905223
                                                         A 19970801
                                        WO 1998-IB1236
                                                         W 19980731
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The sequences of the 5' ends of 233 expressed sequence tags (ESTs) derived AB from mRNAs encoding human secreted proteins expressed in the brain are disclosed. Chemical and enzymic methods of obtaining mRNAs with intact 5' ends are described: (1) a chemical modification method involving derivatization of the 5' ends of the mRNAs and selection of the derivatized mRNAs, and (2) treatment with alkaline phosphatase to remove the phosphate groups present on the 5' ends of uncapped incomplete mRNAs and treatment with a decapping enzyme such as T4 polynucleotide kinase or tobacco acid pyrophosphatase to remove the cap present on full-length mRNAs. The 5' ESTs are screened to identify those having an uninterrupted open reading frame longer than 45 nucleotides beginning with an ATG codon and extending to the end of the EST, and then search to identify potential signal motifs with a score of at least 3.5 in the Von Heijne signal peptide identification matrix. The 5' ESTs may be to obtain cDNAS, and genomic DNAs corresponding to the 5' ESTs. The 5' ESTs may also be used in diagnostic, forensic, gene therapy, and chromosome mapping procedures. Upstream regulatory sequences may also be obtained using the 5' ESTs. The 5' ESTs may also be used to design expression vectors and secretion vectors.

L25 ANSWER 36 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1999:113803 HCAPLUS

DOCUMENT NUMBER: 130:178371

Mitra 09/935,390 5'-Expressed sequence tags for secreted TITLE: proteins identified from human brain tissues INVENTOR(S): Dumas Milne Edwards, Jean-Baptiste; Duclert, Aymeric; Lacroix, Bruno Genset, Fr. PATENT ASSIGNEE(S): PCT Int. Appl., 431 pp. SOURCE: CODEN: PIXXD2 Patent DOCUMENT TYPE: LANGUAGE: English FAMILY ACC. NUM. COUNT: PATENT INFORMATION: KIND DATE PATENT NO. APPLICATION NO. DATE ____ WO 1998-IB1235 19990211 WO 9906551 A2 19980731 WO 9906551 **A3** 19990429

AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG AU 1998-85554 AU 9885554 19990222 A1 19980731 EP 1000149 A2 20000517 EP 1998-936593 19980731 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI T2 20010821 JP 2000-505292 JP 2001512014 19980731 PRIORITY APPLN. INFO.: US 1997-905133 A 19970801 WO 1998-IB1235 W 19980731

The sequences of the 5' ends of 158 expressed sequence tags (ESTs) derived AB from mRNAs encoding human secreted proteins expressed in the brain are disclosed. Chemical and enzymic methods of obtaining mRNAs with intact 5' ends are described: (1) a chemical modification method involving derivatization of the 5' ends of the mRNAs and selection of the derivatized mRNAs, and (2) treatment with alkaline phosphatase to remove the phosphate groups present on the 5' ends of uncapped incomplete mRNAs and treatment with a decapping enzyme such as T4 polynucleotide kinase or tobacco acid pyrophosphatase to remove the cap present on full-length mRNAs. The 5' ESTs are screened to identify those having an uninterrupted open reading frame longer than 45 nucleotides beginning with an ATG codon and extending to the end of the EST, and then search to identify potential signal motifs with a score of at least 3.5 in the Von Heijne signal peptide identification matrix. The 5' ESTs may be to obtain cDNAS, and genomic DNAs corresponding to the 5' ESTs. The 5' ESTs may also be used in diagnostic, forensic, gene therapy, and chromosome mapping procedures. Upstream regulatory sequences may also be obtained using the 5' ESTs. The 5' ESTs may also be used to design expression vectors and secretion vectors.

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L25 ANSWER 37 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
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ACCESSION NUMBER: 1999:113802 HCAPLUS

DOCUMENT NUMBER: 130:192759

TITLE: 5'-Expressed sequence tags for secreted proteins identified from human prostate

INVENTOR(S): Dumas Milne Edwards, Jean-Baptiste; Duclert, Aymeric;

Lacroix, Bruno

PATENT ASSIGNEE(S): Genset, Fr.

SOURCE: PCT Int. Appl., 675 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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PATENT NO.
                      KIND
                           DATE
                                          APPLICATION NO.
                                                           DATE
                           19990211
                                          WO 1998-IB1232
                      A2
                                                           19980731
    WO 9906550
    WO 9906550
                      A3
                           19990429
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            DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG,
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        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
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     JP 2001512013
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                                       US 1997-905144 A 19970801
PRIORITY APPLN. INFO.:
                                       WO 1998-IB1232 W 19980731
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The sequences of the 5' ends of 158 expressed sequence tags (ESTs) derived AB from mRNAs encoding human secreted proteins expressed in the brain are disclosed. Chemical and enzymic methods of obtaining mRNAs with intact 5' ends are described: (1) a chemical modification method involving derivatization of the 5' ends of the mRNAs and selection of the derivatized mRNAs, and (2) treatment with alkaline phosphatase to remove the phosphate groups present on the 5' ends of uncapped incomplete mRNAs and treatment with a decapping enzyme such as T4 polynucleotide kinase or tobacco acid pyrophosphatase to remove the cap present on full-length mRNAs. The 5' ESTs are screened to identify those having an uninterrupted open reading frame longer than 45 nucleotides beginning with an ATG codon and extending to the end of the EST, and then search to identify potential signal motifs with a score of at least 3.5 in the Von Heijne signal peptide identification matrix. ESTs may be to obtain cDNAS, and genomic DNAs corresponding to the 5' The 5' ESTs may also be used in diagnostic, forensic, gene therapy, and chromosome mapping procedures. Upstream regulatory sequences may also be obtained using the 5' ESTs. The 5' ESTs may also be used to design expression vectors and secretion vectors.

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HCAPLUS COPYRIGHT 2004 ACS on STN
L25 ANSWER 38 OF 40
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1999:113801 HCAPLUS ACCESSION NUMBER:

130:192758 DOCUMENT NUMBER:

5'-Expressed sequence tags for secreted TITLE:

proteins identified from human brain and other

tissues

Dumas Milne Edwards, Jean-Baptiste; Duclert, Aymeric; INVENTOR(S):

Lacroix, Bruno

Genset, Fr. PATENT ASSIGNEE(S):

SOURCE: PCT Int. Appl., 522 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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PATENT NO.
                      KIND DATE
                                           APPLICATION NO.
                                                            DATE
                            19990211
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                                                            19980731
     WO 9906549
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     WO 9906549
                            19990408
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             KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
             NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
             UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
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                                                            19980731
                       A2
                            20000517
                                           EP 1998-936589
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                                                            19980731
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             IE, FI
     JP 2001512012
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                                           JP 2000-505290
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                            20040107
                                           EP 2003-16783
                       A1
     EP 1378571
                                                            19980731
           AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
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PRIORITY APPLN. INFO.:
                                        US 1997-905279
                                                         A 19970801
                                                         A3 19980731
                                        EP 1998-936589
                                        WO 1998-IB1231
                                                         W 19980731
AB
     The sequences of the 5' ends of 233 expressed sequence tags (ESTs) derived
     from mRNAs encoding human secreted proteins expressed
     in the testis and other tissues are disclosed. Chemical and enzymic methods
     of obtaining mRNAs with intact 5' ends are described: (1) a chemical
    modification method involving derivatization of the 5' ends of the mRNAs
     and selection of the derivatized mRNAs, and (2) treatment with alkaline
     phosphatase to remove the phosphate groups present on the 5' ends of
     uncapped incomplete mRNAs and treatment with a decapping enzyme such as T4
    polynucleotide kinase or tobacco acid pyrophosphatase to remove
     the cap present on full-length mRNAs. The 5' ESTs are screened to
     identify those having an uninterrupted open reading frame longer than 45
    nucleotides beginning with an ATG codon and extending to the end of the
     EST, and then search to identify potential signal motifs with a score of
     at least 3.5 in the Von Heijne signal peptide
     identification matrix. The 5' ESTs may be to obtain cDNAS, and genomic
     DNAs corresponding to the 5' ESTs. The 5' ESTs may also be used in
     diagnostic, forensic, gene therapy, and chromosome mapping procedures.
     Upstream regulatory sequences may also be obtained using the 5' ESTs.
                                                                            The
     5' ESTs may also be used to design expression vectors and secretion
     vectors.
L25 ANSWER 39 OF 40
                      HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
                         1999:113800 HCAPLUS
DOCUMENT NUMBER:
                         130:178370
                         5'-Expressed sequence tags for secreted
TITLE:
                         proteins from human without tissue specificity
INVENTOR(S):
                         Dumas Milne Edwards, Jean-Baptiste; Duclert, Aymeric;
                         Lacroix, Bruno
PATENT ASSIGNEE(S):
                         Genset, Fr.
                         PCT Int. Appl., 824 pp.
SOURCE:
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
                         English
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
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PATENT NO.
                     KIND DATE
                                          APPLICATION NO.
                                                           DATE
                                          WO 1998-IB1222
    WO 9906548
                      A2
                           19990211
                                                           19980731
    WO 9906548
                           19990408
                      А3
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            KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
            NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
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        RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
            FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
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                           19990222
                      A1
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                                                           19980731
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                                                           19980731
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     JP 2001512011
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PRIORITY APPLN. INFO.:
                                       WO 1998-IB1222
                                                        W 19980731
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The sequences of the 5' ends of 254 expressed sequence tags (ESTs) derived AB from mRNAs encoding human secreted proteins expressed without tissue specificity are disclosed. Chemical and enzymic methods of obtaining mRNAs with intact 5' ends are described: (1) a chemical modification method involving derivatization of the 5' ends of the mRNAs and selection of the derivatized mRNAs, and (2) treatment with alkaline phosphatase to remove the phosphate groups present on the 5' ends of uncapped incomplete mRNAs and treatment with a decapping enzyme such as T4 polynucleotide kinase or tobacco acid pyrophosphatase to remove the cap present on full-length mRNAs. The 5' ESTs are screened to identify those having an uninterrupted open reading frame longer than 45 nucleotides beginning with an ATG codon and extending to the end of the EST, and then search to identify potential signal motifs with a score of at least 3.5 in the Von Heijne signal peptide identification matrix. The 5' ESTs may be to obtain cDNAS, and genomic DNAs corresponding to the 5' ESTs. The 5' ESTs may also be used in diagnostic, forensic, gene therapy, and chromosome mapping procedures. Upstream regulatory sequences may also be obtained using the 5' ESTs. The 5' ESTs may also be used to design expression vectors and secretion vectors.

L25 ANSWER 40 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1999:113714 HCAPLUS

DOCUMENT NUMBER: 130:192757

TITLE: 5'-Expressed sequence tags for secreted

proteins identified from human endoderm

tissues

INVENTOR(S): Dumas Milne Edwards, Jean-Baptiste; Duclert, Aymeric;

Lacroix, Bruno

PATENT ASSIGNEE(S):

Genset, Fr.

SOURCE: PCT Int. Appl., 398 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 9906439	A2	19990211	WO 1998-IB1233	19980731
WO 9906439	A3	19990408		

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            NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
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            CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
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                                                           19980731
    EP 994899
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                                                        A 19970801
PRIORITY APPLN. INFO.:
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                                                        W 19980731
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The sequences of the 5' ends of 147 expressed sequence tags (ESTs) derived AB from mRNAs encoding human secreted proteins expressed in the endoderm are disclosed. Chemical and enzymic methods of obtaining mRNAs with intact 5' ends are described: (1) a chemical modification method involving derivatization of the 5' ends of the mRNAs and selection of the derivatized mRNAs, and (2) treatment with alkaline phosphatase to remove the phosphate groups present on the 5' ends of uncapped incomplete mRNAs and treatment with a decapping enzyme such as T4 polynucleotide kinase or tobacco acid pyrophosphatase to remove the cap present on full-length mRNAs. The 5' ESTs are screened to identify those having an uninterrupted open reading frame longer than 45 nucleotides beginning with an ATG codon and extending to the end of the EST, and then search to identify potential signal motifs with a score of at least 3.5 in the Von Heijne signal peptide identification matrix. The 5' ESTs may be to obtain cDNAS, and genomic DNAs corresponding to the 5' ESTs. The 5' ESTs may also be used in diagnostic, forensic, gene therapy, and chromosome mapping procedures. Upstream regulatory sequences may also be obtained using the 5' ESTs. The 5' ESTs may also be used to design expression vectors and secretion vectors.

```
=> d que stat 127
L9
          20978 SEA FILE=HCAPLUS ABB=ON ?POLYNUCLEOTIDE? OR ?SUBGENOMIC?
           1012 SEA FILE=HCAPLUS ABB=ON L9 AND ?FUSION?(W)?PROTEIN?
L10
              6 SEA FILE=HCAPLUS ABB=ON L10 AND ?RECOMB? (W) ?CELL?
L12
             83 SEA FILE=HCAPLUS ABB=ON L10 AND ?SIGNAL?(W)?PEPTID?
L15
             24 SEA FILE=HCAPLUS ABB=ON L15 AND ?SECRET? (3A) ?PROTEIN?
L16
             21 SEA FILE=HCAPLUS ABB=ON L15 AND (?MEMBRAN? OR ?EXTRACELL?)
L18
             49 SEA FILE=HCAPLUS ABB=ON L12 OR L16 OR L18
L19
             9 SEA FILE=HCAPLUS ABB=ON L19 AND ?DRUG?(W)?SCREEN?
L20
L21
             18 SEA FILE=HCAPLUS ABB=ON L15 AND ?DRUG?(W)?SCREEN?
            19 SEA FILE=HCAPLUS ABB=ON L20 OR L21
L22
            24 SEA FILE=HCAPLUS ABB=ON L15 AND ?SECRET?(3A)?PROTEIN?
L24
L25
             40 SEA FILE=HCAPLUS ABB=ON L22 OR L24
L26
             14 SEA L25
            14 DUP REMOV L26 (O DUPLICATES REMOVED)
L27
```

=> d ibib abs 127 1-14

L27 ANSWER 1 OF 14 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

ACCESSION NUMBER:

2004-248450 [23] WPIDS

DOC. NO. CPI:

C2004-097105

TITLE:

Chimeric secretory or membrane-bound

protein containing an energy generating protein

and an energy accepting protein for use as a reporter of

gene expression.

DERWENT CLASS:

B04 D16

INVENTOR(S):

ASHITAKA, E; ITO, S; OHMIYA, Y

PATENT ASSIGNEE(S):

(NAAD-N) NAT INST ADVANCED IND SCI & TECHNOLOGY

COUNTRY COUNT: 104

PATENT INFORMATION:

PA'	TENT	ИО			KI	ND I	TAC	<u> </u>		VEE	〈 		LA	I	?G								
WO	2004	4022	2600)	A1	200	0403	318	(20	0042	23)	⁺ Ј∦		57	-								
	RW:	AT	BE	BG	CH	CY	CZ	DE	DK	EΑ	EE	ES	FI	FR	GB	GH	GM	GR	HU	ΙE	ΙT	KE	LS
		LU	MC	MW	ΜZ	NL	ΟA	PT	RO	SD	SE	ŞΙ	SK	SL	SZ	TR	TZ	UG	ZM	ZW			
	W:	ΑE	AG	AL	AM	AT	AU	AZ	BA	BB	BG	BR	BY	BZ	CA	CH	CN	CO	CR	CU	CZ	DE	DK
		DM	DZ	EC	EE	ES	FI	GB	GD	GE	GH	GM	HR	HU	ID	${\tt IL}$	IN	IS	JP	KE	KG	KR	ΚZ
		LC	LK	LR	LS	LT	LU	LV	MA	MD	MG	MK	MN	MW	MX	MZ	NI	NO	NZ	MO	PG	PΗ	PL
		PT	RO	RU	SC	SD	SE	SG	SK	\mathtt{SL}	SY	TJ	TM	TN	TR	TT	TZ	UA	UG	US	UZ	VC	VN
		ΥU	ZA	ZM	zw																		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2004022600	A1	WO 2003-JP11285	20030904

PRIORITY APPLN. INFO: JP 2002-357407 20021210; JP 2002-261229 20020906

AN 2004-248450 [23] WPIDS

AB W02004022600 A UPAB: 20040405

NOVELTY - Secretory or membrane-bound chimeric proteins are new, containing an energy generating protein bound to an energy accepting protein, in which energy transfer between the generating and accepting proteins can take place.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for (1) polynucleotides encoding the chimeric proteins, and

their complementary strands;

- (2) expression vectors containing the polynucleotides;
- (3) hosts transformed by the vectors;
- (4) method for preparation of the chimeric proteins, by culture of the transformed hosts;
- (5) method for assay of energy transfer within the chimeric proteins (either dissolved in medium or bound to cell membrane), using the transformed hosts; and
- (6) method for screening compounds regulating the gene expression of the chimeric protein within the cell.

USE - As a reporter for gene expression within the cell, for example to monitor the effect within the cell of antidiabetic or antiinflammatory drugs.

DESCRIPTION OF DRAWING(S) - The drawing shows the emission spectrum of luciferase (Vluc) - enhanced yellow fluorescent protein (YFP) fusion protein, together with the emission spectra of separate VLuc and YFP.

Dwg.6/11

L27 ANSWER 2 OF 14 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

ACCESSION NUMBER:

2004-071399 [07] WPIDS

DOC. NO. CPI:

C2004-029530

TITLE:

Increasing secretion of a protein

from a host cell comprises expressing the protein as a

fusion protein with a secretory
signal polypeptide from HSV

glycoprotein D.

DERWENT CLASS:

B04 D16

INVENTOR(S):

BEGHDADI-RAIS, C; COHEN, G; DESPONDS, C; EISENBERG, R;

FASEL, N

PATENT ASSIGNEE(S):

(RMFD-N) RMF DICTAGENE SA; (UYPE-N) UNIV PENNSYLVANIA

COUNTRY COUNT:

103

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG				
WO 2003104400	A2 20	0031218 (2	200407)*	EN	80				
RW: AT BE	BG CH CY	CZ DE DI	K EA EE	ES FI	FR GB GI	H GM GR	HU IE	IT KE	LS
LU MC	MW MZ NI	OA PT RO	O SD SE	SI SK	SL SZ TI	R TZ UG	ZM ZW		
W: AE AG	IA MA JA	AU AZ BA	A BB BG	BR BY	BZ CA CI	H CN CO	CR CU	CZ DE	DK
DM DZ	EC EE ES	FI GB GI	D GE GH	GM HR	HU ID I	L IN IS	JP KE	KG KP	KR
KZ LC	LK LR LS	LT LU L	V MA MD	MG MK	MN MW MX	X MZ NI	NO NZ	OM PH	\mathtt{PL}
PT RO	RU SC SD	SE SG SI	K SL TJ	TM TN	TR TT T	z ua ug	US UZ	VC VN	YU
ZA ZM	ZW								

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2003104400	A2	WO 2003-US17661	20030606

PRIORITY APPLN. INFO: US 2002-387365P 20020607

AN 2004-071399 [07] WPIDS

AB WO2003104400 A UPAB: 20040128

NOVELTY - Increasing secretion of a protein from a host cell comprising expressing the protein as a fusion protein with a secretory signal '

polypeptide from HSV glycoprotein D, is new.

DETAILED DESCRIPTION - The HSV glycoprotein D is selected from:

(a) gDS-PW comprising a sequence of 66 bp (SEQ ID NO: 80);

- (b) gDS-QP comprising a sequence of 63 bp (SEQ ID NO: 82); and
- (c) proline-X1-X 2 (P-X1-X2), where X1 and X2 are negatively charged amino acids and (P-X1-X 2)n, where n is greater than 1.

INDEPENDENT CLAIMS are also included for:

- (1) a purified and isolated **polynucleotide** encoding a secretory **signal polypeptide** consisting essentially of SEQ ID NO: 80 or 82, or their substitution variants that retain secretory activity;
- (2) a chimeric polynucleotide comprising a polynucleotide encoding a secretory signal polypeptide above, an amino acid sequence P-X1-X2, or an amino acid sequence (P-X1-X2)n, ligated in proper reading frame with a polynucleotide encoding a heterologous polypeptide;
- (3) an expression vector comprising the chimeric polynucleotide;
- (4) a host cell transformed or transfected with the expression vector; and
- (5) expressing a secreted polypeptide by growing the host cell of (4) under conditions that permit expression and secretion of the heterologous polypeptide.

USE - The method is useful for expressing or increasing the expression of a secreted polypeptide from a host cell. Dwg.0/0

L27 ANSWER 3 OF 14 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

ACCESSION NUMBER: 2003-140445 [13]

DOC. NO. CPI: C2003-035660

TITLE:

Novel human G-protein coupled receptor, HGPRBMY30 polypeptide useful for preventing and treating e.g.

immune disorders, cardiovascular disorders or

WPIDS

inflammatory disorders.

DERWENT CLASS:

B04 D16

INVENTOR(S):

FEDER, J N; MINTIER, G A; RAMANATHAN, C S; RAMANATHAN, C

PATENT ASSIGNEE(S):

(FEDE-I) FEDER J N; (MINT-I) MINTIER G A; (RAMA-I) RAMANATHAN C S; (BRIM) BRISTOL-MYERS SQUIBB CO

COUNTRY COUNT: 100

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG

WO 2002096946 A1 20021205 (200313) * EN 343

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ

NL OA PT SD SE SL SZ TR TZ UG ZM ZW

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM

US 2003166540 A1 20030904 (200359)

APPLICATION DETAILS:

ZW

PATENT NO	KIND	APPLICATION	DATE
WO 2002096946	A1 .	WO 2002-US17085	20020530
US 2003166540	Al Provisional	US 2001-294411P US 2002-159339	20010530 20020530

PRIORITY APPLN. INFO: US 2001-294411P 20010530; US

2002-159339

20020530

AN AB 2003-140445 [13] WPIDS

WO 200296946 A UPAB: 20030224

NOVELTY - An isolated human G-protein coupled receptor, HGPRBMY30 polypeptide (I) comprising a sequence selected from a fragment or domain of a sequence (S1) of 854 amino acids defined in the specification, is new.

DETAILED DESCRIPTION - An isolated human G-protein coupled receptor, HGPRBMY30 polypeptide (I) comprising:

- (a) a fragment or domain of S1, having protein coupled receptor activity;
 - (b) a full length protein of S1;
- (c) a polypeptide corresponding to amino acids 2-854 of S1, where the amino acids 2-854 comprising S1 minus the start methionine;
 - (d) a polypeptide corresponding to amino acids 1-854 of S1; or
- (e) a sequence having 95% identity to the above mentioned sequences. (I) also comprises a polypeptide epitope of S1, and a polypeptide encoded by a cDNA.

INDEPENDENT CLAIMS are also included for:

- (1) an isolated nucleic acid molecule (II) comprising a polynucleotide having a sequence selected from:
 - (a) a polynucleotide encoding a polypeptide having S1;
- (b) a polynucleotide consisting of nucleotides 4-2562, or 1-2562 of a sequence (S2) of 3446 nucleotides defined in the specification, where the nucleotides encode a polypeptide corresponding to amino acids 2-854 of S1 minus the start codon;
- (c) a **polynucleotide** encoding the HGPRBMY30 polypeptide encoded by the cDNA clone;
 - (d) a polynucleotide complimentary to S2;
 - (e) a sequence having 95% identity to the above sequences;
 - (f) a fragment of S2, or
- (g) a **polynucleotide** encoding a fragment, domain, epitope of a polypeptide having S1 or encoded by the cDNA sequence, which is hybridizable to S2;
 - (2) a recombinant vector (III) comprising (II);
 - (3) a recombinant host cell (IV) comprising (III);
 - (4) an isolated antibody (V) that binds specifically to (I);
 - (5) a recombinant host cell (VI) that expresses (I);
 - (6) production of (I); and
 - (7) a polypeptide obtained by the above method.

ACTIVITY - Immunosuppressive; Cardiant; Antiinflammatory; Cytostatic; Anti-HIV; Antirheumatic; Antiarthritic; Antibacterial; Antiseborrheic; Dermatological; Antipsoriatic; Neuroprotective; Nootropic; Antiparkinsonian; Antidiabetic; Ophthalmological; Antiasthmatic; Antidepressant; Neuroleptic; Hypotensive; Tranquilizer; Hypertensive; Anorectic; Metabolic; Virucide; Osteopathic; Antianginal; Vulnerary.

MECHANISM OF ACTION - Gene therapy; Antibody-based therapy; Modulator of signal transduction activity and cytokine production; Inhibitor of the level of (I); Inhibitor of chemotaxis, Regulator of the activity of (I).

Treatment of increased levels of (I) was as follows: A patient diagnosed with abnormally increased levels of a polypeptide was administered intravenously with antisense polynucleotides at 0.5, 1.0, 1.5, 2.0 and 3.0 mg/kg/day for 21 days. This treatment was repeated after a 7-day rest period if the treatment was well tolerated. This antisense technology inhibited the production of the polypeptide.

USE - (I) is useful for preventing or treating a medical condition, by administering (I) to a mammalian subject. The medical condition is selected from an immune disorder; a cardiovascular disorder; an inflammatory disorder in which G-protein coupled receptors are either directly, or indirectly, associated with the disorder; a metabolic

disorder; a reproductive disorder; a male reproductive disorder; testicular cancer; a neural disorder; an endocrine disorder; gastrointestinal disorder; a disorder associated with aberrant glutamate activity/regulation; a gastrointestinal disorder associated with aberrant water, and/or bicarbonate regulation; hypocalciuric hypercalcemia (FHH); neonatal severe hyperparathyroidism (NSHPT); autosomal dominant hypocalcemia (ADH); autosomal dominant hypoparathyroidism (ADHP); conditions related to aberrant calcium homeostasis; hypercalcemia; aberrant levels of parathyroid hormone (PTH); skeletal demineralization; hypocalcemia; hyperphosphatemia; and parathyroid hyperplasia.

(I) and (II) are useful for diagnosing a pathological condition or a susceptibility to a pathological condition in a subject by determining the presence or absence of a mutation in (I) or (II), and diagnosing a pathological condition or susceptibility to a pathological condition based on the presence or absence of said mutation (all claimed). (I) is useful as preventive agent for immunological disorders such as AIDS, leukemia, rheumatoid arthritis, sepsis, acne, psoriasis, host-versus graft disease. (I) is also useful for modulating cytokine production, antigen presentation, and boosting immune responses, and to determine biological activity, raise antibodies, and as tissue markers. (I) is useful as an antigenic tag to produce a fusion protein. (I) is useful to screen molecules that bind to polypeptide or for molecules to which the polypeptide binds, and for screening therapeutic drugs or compounds in variety of drug screening techniques. (I) is also used for treating wounds due to injuries, burns and ulcers, for maintaining organs before transplantation or for supporting cell culture of primary tissues and for inducing tissue of mesodermal origin to differentiate in early embryos. (II) is useful for chromosomal identification and in gene therapy. (II) is also useful for identifying organisms on minute biological samples, and as an alternative to restriction fragment and polymorphism. (I) and (II) are useful as probes for the identification and isolation of full length cDNAs and/or genomic DNA of (II). (I) and (II) are also useful for detecting, prognosing, preventing, treating, and/or ameliorating the diseases such as hematopoietic and pulmonary disorders, Alzheimer's, Parkinson's diseases, diabetes, dwarfism, color blindness, retinal pigmentosa, asthma, expression, schizophrenia, sleeplessness, hypertension, anxiety, stress, renal failure, acute heart failure, hypotension, obesity, anorexia, HIV infections, osteoporosis, angina pectoris, and myocardial infarction. (I) and (II) are useful for modulating signal transduction activity. (I) and (II) are useful as an inhibitor of chemotaxis, as a food additive or preservative, and for modifying the activities of (I). (I) and (II) also useful to modulate mammalian characteristics, such as body height, weight, hair color, eye color, skin, percentage of adipose tissue, pigmentation, size and shape, to change a mammal's mental state or physical state by influencing biorhythms, caricadic rhythms, depression, tendency for violence, tolerance for pain, reproductive capabilities, hormonal or endocrine levels, appetite, libido, memory, stress, or other cognitive qualities.

(V) is useful in diagnostic assays to detect the presence or quantification of (I) in a sample, and for affinity purification of (I) from a recombinant cell culture or natural sources.
(V) is also useful for immunotyping cell lines and biological samples, for inhibiting allergic reactions in animals, and for inhibiting gene expression of a particular gene, or genes in a mammal, or other organisms.
Dwg.0/9

L27 ANSWER 4 OF 14 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN ACCESSION NUMBER: 2003-120542 [11] WPIDS DOC. NO. CPI: C2003-031127

TITLE:

New toll/interleukin-1 receptor adapter protein (TIRAP)

polynucleotides and polypeptides, useful for treating a disease state associated with TIRAP expression, e.g. inflammation, and for inducing and

affecting immune response.

DERWENT CLASS:

B04 D16 P14

INVENTOR(S):

BARTON, G; HORNG, T; MEDZHITOV, R

PATENT ASSIGNEE(S):

(BART-I) BARTON G; (HORN-I) HORNG T; (MEDZ-I) MEDZHITOV

R; (UYYA) UNIV YALE

COUNTRY COUNT:

101

PATENT INFORMATION:

PAT	rent	NO			KI	ND I	TAC	Ξ	V	WEE	K		LA]	PG								
WO	2002	2090	0520	- .	A2	200	021	114	(2(003	11)	: * Eì	N	74	•						-		
	RW:	AT	ΒĒ	CH	CY	DE	DK	EA	ES	FI	FR	GB	GH	GM	GR	ΙE	ΙT	KE	LS	LU	MC	MW	MZ
		NL	OA	PT	SD	SE	SL	SZ	TR	TZ	UG	ZM	ZW										
	W :	ΑE	AG	AL	AM	AT	AU	ΑZ	BA	BB	ВĢ	BR	BY	BZ	CA	CH	CN	CO	CR	CU	CZ	DE	DK
		DM	DΖ	ΕĆ	EE	ES	FI	GB	GD	GE	GH	GM	HR	HU	ID	IL	IN	IS	JP	KE	KG	ΚP	KR
		ΚZ	LC	LÌ	LR	LS	LT	LU	$\Gamma\Lambda$	MA	MD	MG	MK	MN	MW	MX	MZ	NO	ΝZ	OM	PH	\mathtt{PL}	PT
		RO	RU	SD	SE	SG	SI	SK	SL	TJ	TM	TN	TR	TT	TZ	UA	UG	UZ	VN	YU	ZA	ZM	ZW
US	2003	3023	3993	3	A1	200	0302	130	(20	003	11)												
EP	140	1283	1		A2	200	0403	331	(20	0042	24)	E	N										
	R:	AL	AT	BE	CH	CY	DE	DK	ES	FI	FR	GB	GR	ΙE	ΙT	LI	LT	LU	LV	MC	MK	NL	PT

APPLICATION DETAILS:

RO SE SI TR

PATENT NO	KIND	APPLICATION	DATE
WO 2002090520	A2	WO 2002-US14915	20020509
US 2003023993	Al Provisional	US 2001-289738P	20010509
	Provisional	US 2001-289815P	20010509
	Provisional	US 2001-289866P	20010829
	CIP of	US 2002-101398	20020319
		US 2002-188947	20020703
EP 1401281	A2	EP 2002-734367	20020509
		WO 2002-US14915	20020509

FILING DETAILS:

PATENT NO	KIND	PATENT NO
EP 1401281	A2 Based on	WO 2002090520
PRIORITY APPLN.	INFO: US 2002-101398 2001-289738P 2001-289815P 2001-289866P 2002-188947	20020319; US 20010509; US 20010509; US 20010829; US 20020703
ANI 2002 120E42	[11] WILDO	

AN 2003-120542 [11] WPIDS AB WO 200290520 A UPAB: 20030214

NOVELTY - An isolated **polynucleotide** (I) comprising a 708 or 762 base pair sequence, given in the specification or its complement, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) an isolated polypeptide comprising a 235 (P1) or 241 (P2) residue amino acid sequence, given in the specification;
 - (2) a polynucleotide encoding the polypeptide in (1);
 - (3) an expression vector comprising the polynucleotide in

(2);

- (4) a process for producing a recombinant host cell;
- (5) a recombinant host cell produced by the process in (4);
- (6) a membrane of a recombinant host cell, where the cell expresses the polypeptide;
 - (7) producing a polypeptide;
 - (8) an antibody immunospecific to (P1) or (P2);
 - (9) a polypeptide obtainable by expressing (I);
- (10) an isolated polynucleotide comprising a 39 base pair sequence, given in the specification;
 - (11) an isolated polypeptide comprising (S7) or (S8);
 - (12) a polynucleotide that encodes the polypeptide in (11);
 - (13) a drug screening method;
 - (14) a method for blocking TIRAP signaling in a cell;
- (15) a fusion protein comprising a TIRAP inhibitory polypeptide and a second polypeptide useful for the delivery of the fusion protein to a cell;
 - (16) methods for screening for antagonists of TIRAP activity;
- (17) a TIRAP antagonist comprising TIRAP having at least one mutation in its TLR4 binding domain so that:
- (a) the mutant binds to TLR4 but does not induce MyD88-independent signaling of TLR4; or
- (b) the mutant binds to TIRAP and prevents TIRAP binding to TLR4 but does not induce MyD88-independent signaling of TLR4;
- (18) a method of treating a disease state associated with TIRAP expression;
- (19) a TIRAP antagonist, which is a small molecule, that inhibits binding of TIRAP to TLR4;
- (20) modulating the immune response in an animal by internally administering a TIRAP antagonist, or a polynucleotide which is anti-sense to a polynucleotide encoding TIRAP; and
- (21) a transgenic knock-out non-human comprising disruption in the endogenous TIRAP gene, where the disruption has been introduced into its genome by homologous recombination with a DNA targeting construct in an embryonic stem cell, where the targeting construct is stably integrated in the genome of the non-human.

Leu-Gln-Leu-Arg-Asp-Ala-Thr-Pro-Gly-Gly-Ala-Ile-Val-Ser (S7); or Val-Ser-Asp-Arg-Asp-Val-Leu-Pro-Gly-Thr-Cys-Val-Trp-Ser (S8).

ACTIVITY - Antiinflammatory.

No biological data is given.

MECHANISM OF ACTION - Toll/interleukin-1 receptor adapter protein inhibitor.

USE - The polypeptides, polynucleotides or antagonists are useful for treating a disease state associated with TIRAP expression (claimed), e.g. inflammation, and for inducing and affecting immune response. The nucleic acids and polypeptides are useful in producing recombinant cells and transgenic non-human mammals, which are useful tools for the study of TIRAP function.

Dwg.0/9

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L27 ANSWER 5 OF 14 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
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ACCESSION NUMBER: 2001-328101 [34] WPIDS

DOC. NO. NON-CPI: N2001-236076 DOC. NO. CPI: C2001-100609

TITLE: New general secretion pathway protein

E polypeptides and nucleic acids encoding the polypeptides useful for treating, preventing or

diagnosing Chlamydia infections, particularly infections

caused by Chlamydia pneumoniae.

DERWENT CLASS: B04 D16 S03

INVENTOR(S):

DUNN, P; MURDIN, A D; OOMEN, R P; WANG, J

PATENT ASSIGNEE(S): (AVET) AVENTIS PASTEUR LTD

COUNTRY COUNT:

94

PATENT INFORMATION:

PATENT	NO	KIND	DATE	WEEK	LA	PG

WO 2001021805 A1 20010329 (200134)* EN 79

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ

NL OA PT SD SE SL SZ TZ UG ZW

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE

SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

AU 2000073986 A 20010424 (200141)

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2001021805	A1	WO 2000-CA1089	20000915
AU 2000073986	Α .	AU 2000-73986	20000915

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 2000073986	A Based on	WO 2001021805

PRIORITY APPLN. INFO: US 1999-154595P 19990917

AN 2001-328101 [34] WPIDS

AB WO 200121805 A UPAB: 20010620

NOVELTY - A nucleic acid (I) encoding a polypeptide comprising:

- (a) a fully defined sequence of 496 amino acids given in the specification;
- (b) an immunogenic fragment comprising at least 12 consecutive amino acids from (a); or
- (c) (a) or (b) which has been modified to improve its immunogenicity and which is at least 75% identical to (a) or (b), is new.

DETAILED DESCRIPTION - The nucleic acid (I) has a sequence of 1691 bp fully defined in the specification, or has at least 38 consecutive nucleotides of this sequence.

INDEPENDENT CLAIMS are also included for the following:

- (1) a nucleic acid comprising a sequence antisense to (I);
- (2) a nucleic acid encoding a fusion protein

comprising a polypeptide encoded by (I) and an additional polypeptide;

- (3) vaccines comprising at least one first nucleic acid expressed as a polypeptide, a vaccine vector, and optionally a second nucleic acid encoding an additional polypeptide that enhances the immune response to the polypeptide expressed by the first nucleic acid;
 - (4) a unicellular host transformed with the nucleic acid;
- (5) a nucleic acid probe of 5-100 nucleotides or a primer of 10-40 nucleotides, which hybridizes under stringent conditions to a 1691-bp sequence, or its homologue, complement, or antisense sequence;
 - (6) a polypeptide encoded by the nucleic acids;
- (7) vaccines comprising at least one first polypeptide and optionally a second polypeptide that enhances the immune response to the first polypeptide;
- (8) a fusion polypeptide comprising a polypeptide of (6) and an additional polypeptide;

- (9) a method of producing a polypeptide of (6) by culturing a unicellular host of (4);
 - (10) an antibody against the polypeptide of (6);
- (11) pharmaceutical compositions comprising a polypeptide or an antibody;
- (12) a method of preventing or treating Chlamydia infection using the above nucleic acids, vaccines, pharmaceutical composition, polypeptides or antibodies;
- (13) a method of detecting Chlamydia infection by assaying a body fluid of a mammal with the above nucleic acids, polypeptides or antibody;
- (14) a diagnostic kit comprising instructions for use and the above nucleic acids, polypeptides or antibodies;
- (15) a method for identifying a polypeptide that induces immune response effective to prevent or lessen the severity of Chlamydia infection in a mammal previously immunized with the polypeptide by:
 - (a) immunizing a mouse with the polypeptide; and
- (b) inoculating the immunized mouse with Chlamydia, where the polypeptide prevents or lessens the severity of Chlamydia infection in the immunized mouse compared to a non-immunized;
 - (16) expression plasmid pCAI284;
 - (17) the nucleic acid
 - (I) ATAAGAATGC GGCCGCCACC ATGGCTGCTA GTATTTTAT;
 - (II) CCCCAAGCTT CATCACAGCG CTTGGTAAC.
 - (18) having a 39 or 29 bp sequence given in the specification; and
- (19) general **secretion** pathway **protein** E from Chlamydia, preferably C. pneumoniae.

ACTIVITY - Antimicrobial.

MECHANISM OF ACTION - Vaccine. 7-9 week old male Balb/c mice were immunized intramuscularly plus intranasally with plasmid DNA containing the coding sequence of C. pneumoniae general secretion pathway protein E or plasmid vector lacking an inserted chlamydial gene. Immunization was given at 0. 3 and 6 weeks, and at week 8, mice were inoculated with 5 multiply 105 IFU of C. pneumoniae strain AR39. 9 days post-challenge, lungs were taken and homogenized in SPG buffer. Dilutions of homogenate were assayed for the presence of infectious chlamydia by inoculation onto monolayers of susceptible cells. Cells were incubated for 3 days, and monolayers were fixed with formalin and methanol, and imunoperoxidase stained for the presence of chlamydial inclusions using convalescent sera from rabbits infected with C. pneumoniae. Mice immunized with pCAI284 had chlamydial lung titers less than 50,000 in 5 of 6 cases at day 9, while the range of values for the controls was 18,200-247,100 IFU/lung.

USE - The nucleic acids encoding the Chlamydia general secretion pathway protein E polypeptides are useful as a vaccine in preventing, treating or diagnosing Chlamydia infections, particularly those caused by C. pneumoniae, including respiratory diseases, e.g. cough, sore throat, bronchitis, asthma. The polynucleotides, including DNA or RNA may be used in producing the encoded polypeptide in a recombinant host system, in the construction of vaccine vectors such as poxviruses, as vaccine agent, and in constructing attenuated Chlamydia strains that can over-express a polynucleotide or express it in a non-toxic mutated form. The polypeptides may also be used as diagnostic reagent for detecting the presence of anti-Chlamydia antibodies, and in the preparation of a medicament for treating or preventing Chlamydia infection.

Dwg.0/4

L27 ANSWER 6 OF 14 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

ACCESSION NUMBER: 2002-033730 [04] WPIDS

DOC. NO. CPI: C2002-009355

TITLE: Genetically-encodable, environmentally-responsive fusion proteins comprising Elastin-Like

peptides polypeptides.

DERWENT CLASS:

B04 D16

INVENTOR(S):

CHILKOTI, A

PATENT ASSIGNEE(S):

(CHIL-I) CHILKOTI A

COUNTRY COUNT: 95

PATENT INFORMATION:

PATENT NO	KIND DATE	WEEK L	A PG	
US 2001034050		•	57	
WO 2002074928	A2 20020926	(200273) EN		
RW: AT BE CH	CY DE DK EA	ES FI FR GB G	H GM GR IE IT	KE LS LU MC MW MZ
NL OA PT	SD SE SL SZ	TR TZ UG ZM Z	W	
W: AE AG AL	AM AT AU AZ	BA BB BG BR B	Y BZ CA CH CN	CR CU CZ DE DK DM
DZ EE ES	FI GB GD GE	GH GM HR HU I	D IL IN IS JP	KE KG KP KR KZ LC
LK LR LS	LT LU LV MA	MD MG MK MN M	W MX MZ NO NZ	PL PT RO RU SD SE
SG SI SK	SL TJ TM TR	TT TZ UA UG U	S UZ VN YU ZA	ZW

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
US 2001034050	Al Provisional	US 2000-190659P US 2001-812382	20000320
WO 2002074928	A2	WO 2002-US8523	20020320

PRIORITY APPLN. INFO: US 2000-190659P 20000320; US 2001-812382 20010320

AN 2002-033730 [04] WPIDS

AB US2001034050 A UPAB: 20020117

NOVELTY - Genetically-encodable, environmentally-responsive fusion proteins comprising Elastin-Like peptides (ELP) polypeptides, are new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) a **fusion protein** (I) exhibiting a phase transition, comprising:
 - (a) 1 or more biological molecules;
- (b) 1 or more proteins exhibiting a phase transition joined to the biologically active molecule; and
 - (c) optionally a spacer sequence separating (a) and/or (b);
 - (2) a polynucleotide (II) encoding (I);
 - (3) an expression vector (III) comprising (II);
- (4) a host cell (IV) transformed by the expression vector (III) which expresses the **fusion protein**;
- (5) a method (V) of producing one or more **fusion proteins** comprising:
 - (a) transforming a host cell with the expression vector (III); and
 - (b) causing the host cell to express the **fusion**
- protein;
- (6) a method (VI) for isolating one or more **fusion proteins** comprising:
 - (a) expressing the fusion protein(s) via (V);
- (b) disrupting the cells to release the **fusion** proteins; and
- (c) isolating the proteins by a method comprising raising temperature;
- (7) a method (VII) for isolating one or more **fusion proteins** comprising:

- (a) expressing the fusion proteins via (V);
- (b) isolating the proteins by raising temperature;
- (8) a method (VIII) of optimizing size of an ELP expression tag incorporated in a polynucleotide comprising a nucleotide sequence encoding a fusion protein exhibiting a phase transition (the fusion protein comprises a protein of interest), comprising:
- (i) forming a number of polynucleotides comprising a nucleotide sequence encoding a fusion protein exhibiting a phase transition (each of the polynucleotides includes a different-sized ELP expression tag);
- (ii) expressing corresponding fusion proteins from the polynucleotides;
- (iii) determining a yield of the desired protein for each of the corresponding fusion proteins;
- (iv) determining size of particulates for each of the corresponding fusion proteins in solution as temperature is raised above Tt; and
- (v) selecting an optimized size ELP expression tag according to pre-determined selection criteria for maximum recoverable protein of interest from among the polynucleotides;
- (9) a method (IX) of purification of fusion proteins to yield a protein of interest, comprising forming a polynucleotide comprising a nucleotide sequence encoding a fusion protein exhibiting a phase transition, expressing the fusion protein in culture, and subjecting a fusion protein-containing material from the culture to processing involving centrifugation and inverse transition cycling to recover the protein of interest.

USE - The polypeptides may be used in medicine and biotechnology.

ADVANTAGE - The fusion proteins exhibit unique physico-chemical and functional properties that can be modulated as a function of the solution environment. The invention also provides methods for purifying the ELPs, which take advantage of these unique properties, including high-throughput purification methods that produce high yields (e.g., milligram levels) of purified proteins, therefore yielding sufficient purified product for multiple assays and analyses. The high throughput purification technique is simpler and less expensive than current commercial high throughput purification methods, since it requires only one transfer of purification intermediates to a new multiwell plate. Dwg.0/30

WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN L27 ANSWER 7 OF 14

ACCESSION NUMBER:

2001-016051 [02] WPIDS

CROSS REFERENCE:

2001-032014 [04]; 2002-581939 [62]

DOC. NO. CPI:

C2001-004423

TITLE:

Staphylococcal aureus 509HK polypeptide, useful for diagnosing and staging of diseases or response of an infectious organism to drugs, and in screening for

antibacterial drugs.

DERWENT CLASS:

B04 D16

INVENTOR(S):

BAE, W; BISWAS, S; BURNHAM, M K R; THROUP, J P; VAN HORN,

S; WARREN, R L

PATENT ASSIGNEE(S):

(SMIK) SMITHKLINE BEECHAM CORP; (SMIK) SMITHKLINE BEECHAM

PLC

COUNTRY COUNT:

19

PATENT INFORMATION:

KIND DATE PATENT NO WEEK LA PG WO 2000067783 A1 20001116 (200102)* EN 37 RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE W: JP

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2000067783	A1	WO 2000-US11917	20000503,

PRIORITY APPLN. INFO: US 1999-132935P 19990506

AN 2001-016051 [02] WPIDS

CR 2001-032014 [04]; 2002-581939 [62]

AB WO 200067783 A UPAB: 20021001

NOVELTY - An isolated Staphylococcal aureus 509HK polypeptide (I), is new. DETAILED DESCRIPTION - An isolated Staphylococcal aureus 509HK polypeptide (I), is new.

- (I) is selected from:
- (a) a polypeptide comprising a 376 amino acid sequence (S1) defined in the specification;
 - (b) a polypeptide having at least 95% identity to S1;
- (c) a polypeptide encoded by a recombinant polynucleotide having 1131 base pair (bp) sequence (S2) defined in the specification.

INDEPENDENT CLAIMS are also included for the following:

- (1) an isolated polynucleotide selected from:
- (a) a polynucleotide encoding a polypeptide having at least 95% identity to S1;
- (b) a polynucleotide having a sequence that is at least 95% identical to a polynucleotide encoding S1 or to S2;
 - (c) a polynucleotide encoding S1;
 - (d) a polynucleotide having the sequence of S2;
- (e) a **polynucleotide** at least 30 nucleotides in length obtained by screening an appropriate library under stringent hybridization conditions with a probe having the sequence of S2 or its fragment which is at least 30 nucleotides in length;
- (f) a polynucleotide encoding a mature polypeptide expressed by the 509HK gene present in Staphylococcus aureus; or
 - (g) a complement of (a), (b), (c), (d), (e), or (f);
 - (2) a method for the treatment of an individual:
- (a) in need of enhanced or expression of or immunological response to (I) by administering an antagonist of (I); or
- (b) having need to inhibit activity or expression of (I) by administering:
 - (i) an antagonist of (I);
- (ii) a nucleic acid that inhibits the expression of a
 polynucleotide encoding (I);
- (iii) a polypeptide that competes with the polypeptide for its ligand or receptor; or
- (iv) a polypeptide that induces an immunological response to (I) in the individual;
- (3) a process for diagnosing or prognosing a disease or a susceptibility to a disease in an individual related to expression or activity of (I) in an individual by:
- (a) determining the presence of mutation in the nucleotide sequence encoding (I) in an organism; or
- (b) analyzing for the presence or amount of the polypeptide expression in a sample from the individual;
- (4) a process for producing a (I) by culturing a host cell under conditions sufficient for the production of (I);

- (5) a process for producing a host cell comprising an expression system or its membrane expressing (I) by transforming or transfecting a cell with an expression system comprising a polynucleotide capable of producing (I) when the expression system is present in a compatible host cell;
 - (6) a host cell or its membrane expressing (I);
 - (7) an antibody immunospecific for (I);
- (8) a method for screening compounds that agonize or inhibit the function of (I), comprising:
- (a) measuring the binding of a candidate compound to the polypeptide or to the cells or membranes bearing the polypeptide or a fusion protein by means of a label directly or indirectly associated with the candidate compound;
- (b) measuring the binding of a candidate compound to the polypeptide or to the cells or membranes bearing the polypeptide or a fusion protein in the presence of a labeled competitor;
- (c) testing whether the candidate compound results in a signal generated by activation or inhibition of the polypeptide using detection systems appropriate to the cells or cell membranes bearing the polypeptide;
- (d) mixing a candidate compound with a solution containing (I) to form a mixture, measuring activity of the polypeptide in the mixture, and comparing the activity of the mixture to a standard; or
- (e) detecting the effect of a candidate compound on the production of mRNA encoding the polypeptide and the polypeptide in cells, using for instance, an enzyme-linked immunosorbant assay (ELISA) assay; and
 - (9) an agonist or antagonist of (I).

ACTIVITY - Antimicrobial; respiratory general; cardiant; dermatological ophthalmological; nootropic; neuroleptic.

No biological data given.

MECHANISM OF ACTION - Agonist and antagonist of the 509HK polypeptide.

No biological data given.

USE - The polypeptides and polynucleotides may be used as research reagents and materials for the discovery of disease treatments; in the diagnosis and staging of diseases or response of an infectious organism to drugs; in assessing the binding of small molecule substrates and ligands in cells or cell preparations; to configure screening methods for detecting the effect of added compounds on the production of mRNA and/or polypeptide in cells; to discover agents that inhibit or enhance the production of polypeptide from manipulated cells or tissues; in the prevention of bacterial adhesion to eukaryotic extracellular matrix proteins on in-dwelling devices or to extracellular matrix proteins in wounds; to block bacterial adhesion between eukaryotic extracellular matrix proteins and bacterial 509HK proteins that mediate tissue damage; and/or to block the normal progression of pathogenesis in infections initiated other than by the implantation of in-dwelling devices or by other surgical techniques.

The polypeptides may also be used to identify membrane bound or soluble receptors, or as target for the screening of antibacterial drugs. The polynucleotides may also be used as hybridization probe for RNA, cDNA and genomic DNA to isolate full-length cDNAs and genomic clones encoding 509HK and to isolate cDNA and genomic clones for other genes that have high identity, to 509HK gene. These may further be used to determine whether or not the polynucleotides identified are transcribed in bacteria in infected tissues, thus may be used in the diagnosis of the stage of infection and type of infection the pathogen has attained; in the discovery and development of antibacterial compounds; and to construct antisense sequences to control expression of the coding sequence of interest.

Agonists and antagonists of the compounds may be used for therapeutic and prophylactic purposes for diseases, such as infections of the respiratory tract, lower respiratory, cardiac, gastrointestinal, eye, central nervous system, skin, kidney and urinary tract, bone and joint. Dwg.0/0

L27 ANSWER 8 OF 14 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

ACCESSION NUMBER:

2000-664965 [64] WPIDS

CROSS REFERENCE:

2000-628389 [58]; 2000-638462 [58]

DOC. NO. CPI:

C2000-201423

TITLE:

Signal peptide derived from SpoE

protein of Salmonella typhimurium useful for directing

secretion of heterologous proteins from

recombinant bacterium.

DERWENT CLASS:

B04 D16

INVENTOR(S):

GALAN, J E; HARDT, W

PATENT ASSIGNEE(S):

(UYNY) UNIV NEW YORK STATE RES FOUND

COUNTRY COUNT:

90

PATENT INFORMATION:

PATENT NO) KIND	DATE	WEEK	LA	PG
					· —

WO 2000059537 A1 20001012 (200064) * EN 36

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL

OA PT SD SE SL SZ TZ UG ZW

W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL

TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

AU 2000042172 US 6664386 A 20001023 (200107) B1 20031216 (200382)

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2000059537	A1	WO 2000-US9396	20000407
AU 2000042172	A	AU 2000-42172	20000407
US 6664386	B1	US 1999-288438	19990408

FILING DETAILS:

PATENT NO	ΚI	ND		I	PATENT	NO
AU 2000042172	Α	Based	on	WO	200005	9537

PRIORITY APPLN. INFO: US 1999-288438 19990408

AN 2000-664965 [64] WPIDS

CR 2000-628389 [58]; 2000-638462 [58]

AB WO 200059537 A UPAB: 20010202

NOVELTY - A signal peptide (I) derived from SpoE

protein of Salmonella typhimurium, comprising an amino acid sequence at least 90% homologous to a sequence of 59 amino acids defined in the specification, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) a fusion protein (II) comprising (I) fused to a heterologous protein;
 - (2) an isolated nucleic acid molecule (III) encoding (I) or (II);
 - (3) a vector (IV) comprising (III); and

(4) a recombinant host cell (V) comprising (IV).

USE - The signal peptide is useful for effecting
the secretion of heterologous proteins. (V) is useful
for producing a heterologous protein by culturing (V) in a culture medium
and recovering the secreted heterologous protein from
the medium (claimed). (I) directs the secretion of heterologous
proteins which include hormones, enzymes and interleukins
including e.g. insulin, human growth hormone, tissue plasminogen
activator, from the recombinant bacterium.

ADVANTAGE - The recombinant bacterial system directs the secretion of folded proteins which accumulate in the culture supernatants and is more efficient than other systems as virtually all protein produced is secreted. The system can be easily used in massive fermentor-type settings for industrial production of proteins and are safely used in a biotechnology setting without the need for extra biohazard precautions. The system can be used in conjunction with recombinant avirulent Salmonella vaccine strains for the secretion of recombinant antigens.

Dwg.0/0

L27 ANSWER 9 OF 14 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

ACCESSION NUMBER:

2000-524624 [47] WPIDS

CROSS REFERENCE:

1999-190618 [16]

DOC. NO. CPI:

C2000-155882

TITLE:

Expression cassette contains a promoter, signal peptide, secretion competent polypeptide and heterologous protein for production and secretion of heterologous peptides from

eukaryotic cells.

DERWENT CLASS:

B04 C06 D16

INVENTOR(S):
PATENT ASSIGNEE(S):

BEHIE, L.A; FARRELL, P J; IATROU, K (UYTE-N) UNIV TECHNOLOGIES INT INC

COUNTRY COUNT:

91

PATENT INFORMATION:

PA:	rent	NO			KII	ND I	ITAC	Ξ	7	WEE	K		LA	F	PG								
WO	200	0050	061	6 .	A2	200	0008	331	(20	000	 47) [,]	 * Ei	1	53	-								
	RW:	ΑT	BE	СН	CY	DE	DK	EA	ES	FI	FR	GB	GH	GM	GR	ΙE	IT	KE	LS	LU	MC	MW	NL
		OA	PT	SD	SE	\mathtt{SL}	SZ	TZ	UG	zw													
	W:	ΑE	AL	ΑM	AT	ΑÜ	ΑZ	BA	BB	BG	BR	BY	CA	CH	CN	CR	CU	CZ	DE	DK	DM	EE	ES
		FI	GB	GD	GE	GH	GM	HR	HU	ID	IL	IN	IS	JP	KE	KG	ΚP	KR	ΚZ	LC	LK	LR	LS
		\mathtt{LT}	LU	LV	MA	MD	MG	MK	MN	MW	MX	NO	ΝZ	PL	PT	RO	RU	SD	SE	SG	SI	SK	\mathtt{SL}
•		TJ	TM	TR	TT	TZ	UA	UG	US	UZ	VN	YU	ZA	ZW									
AU	200	002	7890	0	Α	200	2000	914	(20	000	63)												
EP	115	7120)		A 2	200	011	128	(20	002	01)	E	1										
	R:	AL	ΑT	ΒE	CH	CY	DE	DK	ES	FI	FR	GB	GR	ΙĒ	IT	LI	LT	LU	LV	MC	MK	NL	PT
		RO	SE	SI																			

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2000050616	A2	WO 2000-CA188	20000223
AU 2000027890	A	AU 2000-27890	20000223
EP 1157120	A2	EP 2000-906103	20000223
		WO 2000-CA188	20000223

FILING DETAILS:

PATENT NO PATENT NO KIND AU 2000027890 A Based on WO 2000050616 EP 1157120 A2 Based on WO 2000050616.

PRIORITY APPLN. INFO: US 1999-256694 19990224

2000-524624 [47] WPIDS AN

1999-190618 [16] CR

following:

WO 200050616 A UPAB: 20030224 AB

> NOVELTY - Expression cassette (I) useful for the secretion of a heterologous protein from insect cells as a fusion protein comprises a polynucleotide encoding in the 5' to 3' direction a promoter, a signal peptide, an insect secretion competent polypeptide which is not an immunoglobulin Fc region and a heterologous protein with the coding sequences linked in frame. DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the

- (1) a vector useful for the **secretion** of a heterologous protein from eukaryotic cells comprising (I);
 - (2) an insect cell transformed with (I);
- (3) a method of **secreting** a heterologous **protein** comprising introducing (I) into an insect cell; and
- (4) a method of secreting a heterologous protein from mammalian cells comprising introducing into a mammalian cell an expression cassette comprising a polynucleotide encoding in the 5' to 3' direction a promoter, a signal peptide, a secretion competent polypeptide which is juvenile hormone esterase or human granulocyte macrophage colony stimulating factor and a heterologous protein with the coding sequences linked in frame and the heterologous protein is expressed and secreted from the mammalian cell.

USE - The expression cassette and vector are used for the production of heterologous peptides and proteins in insect and mammalian cell (claimed).

ADVANTAGE - Recombinant proteins which are produced are secreted into the extracellular environment of the insect cells allowing easier purification. Higher expression levels of the proteins can also be achieved. Dwq.0/7

L27 ANSWER 10 OF 14 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

1999-337714 [28] ACCESSION NUMBER: WPIDS

N1999-253082 DOC. NO. NON-CPI: DOC. NO. CPI: C1999-099318

TITLE: Secreted protein NSL4 for encoding DNA and treating various illnesses.

B04 D16 S03 DERWENT CLASS:

GALLAGHER, K T; KIKLY, K K; MCLAUGHLIN, M M; SOUSA, S; INVENTOR(S):

STOCKWELL, S

(SMIK) SMITHKLINE BECKMAN CORP; (SMIK) SMITHKLINE BEECHAM PATENT ASSIGNEE(S):

CORP

COUNTRY COUNT:

21

PATENT INFORMATION:

PATE	ENT	ИО		KIN	1D [ITAC	Ξ	V	VEE	K		LA	I	PG		
WO 9	9924	601	L	A1	199	990!	520 ES	(19	9992	28)	El	1	44		МС	NIT

E CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

W: JP US

EP 1038020 A1 20000927 (200048) EN R: BE CH DE DK FR GB IT LI NL JP 2001521761 W 20011113 (200204) 45

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9924601	A1	WO 1998-US24243	19981112
EP 1038020	A1	EP 1998-957922	19981112
		WO 1998-US24243	19981112
JP 2001521761	Μ .	WO 1998-US24243	19981112
		JP 2000-519594	19981112

FILING DETAILS:

PATENT NO	KIND	PATENT NO
EP 1038020	Al Based on	WO 9924601
JP 2001521761	W Based on	WO 9924601

PRIORITY APPLN. INFO: US 1997-65139P

19971112

AN 1999-337714 [28] WPIDS

AB WO 9924601 A UPAB: 20000516

NOVELTY - Secreted protein NSL4 (A) comprising the 192

residue amino acid sequence given in the specification, is new.

DETAILED DESCRIPTION - An isolated polypeptide (A) selected from:

- (a) an isolated polypeptide comprising an amino acid sequence selected from peptides having at least:
 - (i) 70% identity;
 - (ii) 80% identity;
 - (iii) 90% identity; or
- (iv) 95% identity to the 192 residue amino acid sequence given in the specification;
- (b) an isolated polypeptide comprising the 192 residue amino acid sequence; or
- (c) an isolated polypeptide which is the 192 residue amino acid sequence.

INDEPENDENT CLAIMS are also included for:

- (1) an isolated polynucleotide selected from:
- (i) an isolated **polynucleotide** comprising a nucleotide sequence encoding a polypeptide that has at least:
 - (a) 70% identity;
 - (b) 80% identity;
 - (c) 90% identity; or
- (d) 95% identity to the 192 residue amino acid sequence given in the specification;
- (ii) an isolated **polynucleotide** comprising a nucleotide sequence that has at least:
 - (a) 70% identity;
 - (b) 80% identity;
 - (c) 90% identity; or
- (d) 95% identity to a nucleotide sequence encoding the 192 residue amino acid sequence given in the specification;
- (iii) an isolated polynucleotide comprising a nucleotide sequence which has at least:
 - (a) 70% identity;
 - (b) 80% identity;
 - (c) 90% identity; or
- (d) 95% identity to the 1039 bp DNA sequence given in the specification;

- (iv) an isolated **polynucleotide** comprising a nucleotide sequence encoding the 192 residue amino acid sequence;
- (v) an isolated polynucleotide which is the 1039 bp DNA sequence; or
- (vi) an isolated **polynucleotide** obtainable by screening an appropriate library under stringent hybridisation conditions with a labeled probe having the 1039 bp sequence or a fragment of it; or
- (vii) a nucleotide sequence complementary to the isolated polynucleotide.
 - (2) an antibody immunospecific for (A);
 - (3) a method for the treatment of a subject:
 - (a) in need of enhanced activity or expression of (A), comprising:
- (i) administering to the subject a therapeutically effective amount of an agonist to (A), and/or
- (ii) providing to the subject an isolated polynucleotide comprising a nucleotide sequence encoding the polypeptide in a form so as to effect production of the polypeptide activity in vivo; or
 - (b) having need to inhibit activity or expression of (A), comprising:
- (i) administering to the subject a therapeutically effective amount of an antagonist of (A); and/or
- (ii) administering to the subject a nucleic acid molecule that inhibits the expression of a nucleotide sequence encoding the polypeptide, and/or
- (iii) administering to the subject a therapeutically effective amount of a polypeptide that competes with (A) for its ligand, substrate, or receptor;
- (4) a process for diagnosing a disease or a susceptibility to a disease in a subject related to expression or activity of (A) in a subject, comprising:
- (a) determining the presence or absence of a mutation in the nucleotide sequence encoding the polypeptide in the genome of the subject; and/or
- (b) analyzing for the presence of amount of the polypeptide expression in a sample derived from the subject;
- (5) a method for screening to identify compounds which stimulate of which inhibit the function of (A), comprising a method selected from:
- (a) measuring the binding of a candidate compound to the polypeptide (or to the cells or membranes beating the polypeptide) or a fusion protein, by means of a label directly or indirectly associated with the candidate compound;
- (b) measuring the binding of a candidate compound in the presence of a labeled competitor;
- (c) testing whether the candidate compound results in a signal generated by activation or inhibition of the polypeptide, using detection systems appropriate to the cells or cell membranes bearing the polypeptide;
- (d) mixing a candidate compound with a solution containing (A) to form a mixture, measuring the activity of the polypeptide in the mixture and comparing the activity of the mixture to a standard; or
- (e) detecting the effect of a candidate compound on the production of mRNA encoding the polypeptide and the polypeptide in cells, using for instance, an ELISA assay;
 - (6) an agonist or an antagonist of (A);
- (7) an expression system comprising a polynucleotide capable of producing (A) when the expression system is present in a compatible host cell;
- (8) a process for producing a recombinant host cell, comprising transforming or transfecting a cell with the expression system of (7) so that the host cell under appropriate conditions produces (A);
 - (9) a recombinant host cell produced by the process of (8)

- (10) a membrane of the recombinant host cell of (9), expressing (A);
- (11) an isolated polynucleotide selected from:
- (a) an isolated polynucleotide comprising a nucleotide sequence which has at least 70%, 80%, 90%, 95%, 97% identity to the 172 bp DNA sequence given in the specification;
 - (b) an isolated polynucleotide comprising the 172 bp sequence; or
- (c) an isolated polynucleotide comprising a nucleotide sequence encoding a polypeptide which has at least 70%, 80%, 90%, 95%, 97-99% identity to the 38 residue amino acid sequence given in the specification; and
 - (12) a polypeptide selected from:
- (a) a polypeptide which comprises an amino acid sequence which has at least 70%, 80%, 90%, 95%, 97-99% identity to the 38 residue sequence;
 - (b) the 38 residue sequence; or
- (c) a polypeptide which is encoded by a polynucleotide comprising the 172 bp DNA sequence.

ACTIVITY - None given.

MECHANISM OF ACTION - None given.

USE - The host cell of (9) can be used to produce (A) (claimed). (A), the DNA encoding it, and (ant)agonists of it can be used for treating bacterial, fungal, protozoan and viral infections; pain; cancers; anorexia; bulimia; asthma; Parkinson's disease; acute heart failure; hypertension; hypertension; urinary retention; osteoporosis; angina pectoris; myocardial infarction; ulcers; asthma; allergies; benign prostatic hypertrophy; and psychotic and neurological disorders, including anxiety, schizophrenia, manic depression, delirium, severe mental retardation and dyskinesias, such as Huntington's disease or Gilles dela Tourett's syndrome.

ADVANTAGE - None given.

Dwg.0/0

L27 ANSWER 11 OF 14 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

ACCESSION NUMBER: 1999-277271 [23] WPIDS

DOC. NO. NON-CPI: N1999-207831 DOC. NO. CPI: C1999-081450

TITLE: New isolated cytokine-like polypeptide, z219a.

DERWENT CLASS: B04 D16 P14

INVENTOR(S): BLUMBERG, H; CONKLIN, D C PATENT ASSIGNEE(S): (ZYMO) ZYMOGENETICS INC

COUNTRY COUNT: 83

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG A1 19990415 (199923) * EN 119 WO 9918209 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW A 19990427 (199936) AU 9910693 EP 968288 A1 20000105 (200006) ENR: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE JP 2001507946 W 20010619 (200140) 106 US 6388064 B1 20020514 (200239) A1 20030213 (200314) US 2003032792

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9918209	A1	WO 1998-US21091	19981006
AU 9910693	Α	AU 1999-10693	19981006
EP 968288	A1	EP 1998-953283	19981006
		WO 1998-US21091	19981006
JP 2001507946	W	WO 1998-US21091	19981006
		JP 1999-522287	19981006
US 6388064	B1 Provisional	US 1997-61712P	19971006
		US 1998-167513	19981006
US 2003032792	Al Provisional	US 1997-61712P	19971006
	Cont of	US 1998-167513	19981006
		US 2001-39876	20011026

FILING DETAILS:

PATENT NO	KIND	PATENT NO
	A Based on Al Based on W Based on Al Cont of	WO 9918209 WO 9918209 WO 9918209 US 6388064
ORITY APPLN. INFO	: US 1997-61712P	19971006; US

1998-167513 19981006; US 2001-39876 20011026

1999-277271 [23] WPIDS AN AB

9918209 A UPAB: 19990616

NOVELTY - New isolated human polynucleotides encode a polypeptide, z219a, which has cytokine-like activity.

DETAILED DESCRIPTION - A novel isolated polynucleotide (PN) encodes a polypeptide comprising a sequence of amino acid residues that is at least 90% identical to an amino acid sequence selected from:

- (a) an amino acid sequence (IIa) shown (235 amino acids in length) from amino acid 26 (Tyr) to 235 (Ser); and
 - (b) an amino acid sequence (II) from amino acid 1 (Met) to 235 (Ser). INDEPENDENT CLAIMS are also included for:
 - (1) an isolated PN molecule selected from:
- (a) PN molecules comprising a nucleotide sequence (NS) (I) shown (876 nucleotides in length) from nucleotides 194 to 823;
 - (b) PN molecules comprising a NS (I) from nucleotide 119 to 823; and
 - (c) PN molecules complementary to (a) or (b);
- (2) an expression vector comprising the following operably linked elements:
 - (a) a transcription promoter;
- (b) a DNA segment encoding a z219a polypeptide that is at least 90% identical to an amino acid sequence (II) from amino acid 26 (Tyr) to 235 (Ser); and
- (c) a transcription terminator, where the promoter is operably linked to the DNA segment, and the DNA segment is operably linked to the transcription terminator;
- (3) a cultured cell into which has been introduced an expression vector as in (2), further comprising a secretory signal sequence operably linked to a DNA segment;
- (4) a DNA construct encoding a fusion protein, comprising:
- (a) a first DNA segment encoding a polypeptide that is at least 90% identical to a sequence of amino acid residues 1 (Met) to 25 (Gly) of sequence (II); and
 - (b) a second DNA segment encoding an additional polypeptide, where

the first and second DNA segments are connected in-frame and encode the fusion protein;

- (5) an isolated polypeptide comprising a sequence of amino acid residues that is at least 90% identical to an amino acid sequence selected from:
- (a) polypeptide molecules comprising an amino acid sequence (II) from amino acid 26 (Tyr) to 235 (Ser) of sequence (II); and
- (b) polypeptide molecules comprising an amino acid sequence (II) from amino acid residue 1 (Met) to 235 (Ser);
- (6) a method of producing an antibody to z219a polypeptide comprising:
- (a) inoculating an animal with a polypeptide, (II), inorder to elicits an immune response in the animal to produce the antibody; and
 - (b) isolating the antibody from the animal; and
 - (7) an antibody which specifically binds to a polypeptide as in (5).

USE - The PNs encode a polypeptide designated z219a which has homology to human cancerous bone protein D87120. The polypeptides may have cytokine activity. The polypeptides, nucleic acid and/or antibodies can be used in treatment of disorders associated with type I and II diabetes, gestational diabetes, pancreatic cancer, nutrient and metabolic disorders, pancreatic and intestinal hormonal release, intestinal mucosal secretion, intestinal regeneration from acute injury, peptic ulcers, Crohn's disease, inflammatory bowel disease, defense of the GI tract against microbial attack, other epithelial disorders, and prostate obstruction and cancer.

They can be used to modulate other proteins to which they interact, or to treat or prevent development of pathological conditions in such diverse tissues as small intestine, pancreas, and prostate. In particular, certain diseases such as diabetes, peptide ulcers, Crohn's disease, inflammatory bowel disease, certain genetic syndromes and other human diseases may be amenable to such diagnosis, treatment or prevention.

They can also be used to prevent or treat salivary gland dysfunction such as a deficiency in starch breakdown capability or efficiency, wound healing dysfunction, inadequate saliva production or composition or mucosal integrity breakdown. z219a polypeptides may also have an anti-microbial function. Expression of z219a polypeptide at a relatively high level in trachea may indicate a role for z219a polypeptides in prevention or treatment of destructive lung disease.

Examples of pathological conditions include xerostomia, sarcoidosis, dental caries, osteomyelitis, oral candidiasis, buccal mucosa infections, chronic inflammation (Sjogren's syndrome), mumps, chronic bronchitis, adult respiratory distress syndrome (ARDS), sudden infant death syndrome (SIDS), salivary gland carcinoma, pneumocystic carinii (particularly as associated with AIDS patients), cystic fibrosis, or emphysema. The products can also be used for detection, diagnosis, production of transgenic animals and drug screening.

Dwg.0/1

L27 ANSWER 12 OF 14 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

ACCESSION NUMBER: 1999-246411 [21] WPIDS

DOC. NO. NON-CPI: N1999-183546 DOC. NO. CPI: C1999-072124

TITLE: New clone, HWHHJ20, useful for diagnosing and treating

cancer, AIDS and autoimmune diseases.

DERWENT CLASS: B04 D16 S03

INVENTOR(S): ALBONE, E F; KIKLY, K K

PATENT ASSIGNEE(S): (SMIK) SMITHKLINE BEECHAM CORP

COUNTRY COUNT: 27

PATENT INFORMATION:

PA	TENT NO	KIND DATE	WEEK	LA	PG		
 FD	911391	72 10000128	(199921)*	 FN	21		
БĒ			•			. 1.T 1.U 1.7	MC MK NL PT
	RO SE SI	0 01 02 01		-			
CA	2248170	A1 19990424	(199940)	EN			
JP	11235185	A 19990831	(199946)		19		
JP.	2002233365	A 20020820	(200258)		17		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
EP 911391 CA 2248170 JP 11235185 JP 2002233365	A2 A1 A A Div ex	EP 1998-308550 CA 1998-2248170 JP 1998-304547 JP 1998-304547 JP 2001-382573	19981019 19981021 19981026 19981026 19981026

PRIORITY APPLN. INFO: US 1998-123184 19980727; US 1997-63245P 19971024

AN 1999-246411 [21] WPIDS

AB EP 911391 A UPAB: 19990914

NOVELTY - A new pim family member, HWHHJ20 (I), has at least 70-95% identity with the sequence of 326 amino acids given in the specification.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) a polynucleotide or its complement (II) selected from:
- (a) a polynucleotide encoding a polypeptide with at least 70-95% identity to (I);
- (b) a polynucleotide with at least 70-95% identity to a nucleotide encoding (I); and
- (c) a polynucleotide obtainable by screening an appropriate library with (II).
 - (2) an antibody immunospecific for (I);
 - (3) a method of treatment of a patient needing:
- (a) to enhance activity or expression of (I), by administering either (II) to cause expression of (I) in vivo or an agonist of (I); and
- (b) to reduce activity of (I), by administering an antagonist of (I), a nucleic acid which inhibits expression of (II) or a polypeptide which competes with (I) for its ligand, substrate or receptor.
 - (4) an agonist or antagonist of (I);
 - (5) an expression system (III) comprising (II) in a host cell;
- (6) a process for producing a recombinant host cell comprising transfecting a cell with (III) so that it produces (I);
 - (7) a membrane of the cell of (III) expressing (I);
- (8) a process for producing (I) by culturing the host cell of (III) and recovering (I);
- (9) a polynucleotide (IIa) which is an EST portion of (II) with at least 70-97% identity to a fully defined 846 base pair sequence given in the specification; encoding
- (10) a polypeptide (Ia) with at least 70-97% identity to a fully defined 235 amino acid sequence given in the specification.

ACTIVITY - (I), agonists or antagonists of (I) or nucleic acid molecules modulating expression of (I) are anti-HIV, cytostatic, cerebroprotective, antirheumatic, antiarthritic, nootropic and antiasthmatic.

MECHANISM OF ACTION - Antagonists of (I) inhibit endogenous (I). Administered (II) or (I) or agonists of (I) enhance activity of (I).

USE - (II) may be used as probes or primers to screen for genetic mutations in, or alterations in the expression of the gene expressing (I) in a patient (claimed) compared to a healthy individual. This may lead to the diagnosis of or identification of a predisposition to diseases such as cancer, autoimmune diseases, asthma, rheumatoid arthritis, Alzheimer's disease, AIDS and stroke. Similarly measuring the amount of (I) in a sample from a patient can be used to diagnose these diseases. (I) may be used to identify its agonists or antagonists of by mixing (I) with a candidate and detecting any effect on the production of (I) or its activity (claimed) or measuring the effect of a candidate on the activity or expression of (I). It may also be used to identify membrane-bound or soluble receptors of (I) and in the structure-based design of an agonist, antagonist or inhibitor of (I). Patients requiring increased activity of (I) may be treated by administering an agonist of (I) or (II) (claimed). Patients who have overactive (I) can be treated by administering an antagonist of (I), a nucleic acid inhibiting the expression of (I) or a polypeptide which competes with (I) (claimed). Constitutively active (I) may be used to screen for inverse agonists or antagonists of (I). (I) may also be administered to an individual to cause an immune response so protecting the individual from the above diseases. A fusion protein of (I) and an IgG heavy chain may be used in therapy, diagnosis and drug screening.

(II) or fragments of it may be used as hybridization probes or primers to isolate clones encoding (I) or other proteins. It may be used in gene therapy by administering it to a subject in a retroviral vector expressed in a packaging cell. (II) may also be useful in determining genetic linkage, genetic variability or alterations in gene expression. (II) may also be used to localize genes on chromosomes.

Antibodies to (I) may be used to identify clones expressing (I) or to purify (I) by affinity chromatography and can be used to administer to patients with excessive expression or activity of (I), as can other antagonists of (I). In addition, agonists of (I) may be used to enhance activity of (I) in patients.

Finally (I), antibodies to (I) or (II) may be used to test the effects of various compounds on the expression of mRNA encoding (I) in cells using ELISA assays for example. Their sequences are also useful as an information resource on biological databases. Dwg.0/0

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1998-192768 [17] WPIDS ACCESSION NUMBER:

DOC. NO. CPI: 1996-179945 [18]
TITLE:

Recombinant DNA for expression of target protein, e.g. TITLE:

HIV gp120 - comprises sequences coding for signal

peptide, immuno-globulin Fc region and gp120.

B04 D16 DERWENT CLASS:

GILLIES, S D; LO, K; SUDO, Y INVENTOR(S):

(FUJI-N) FUJI IMMUNOPHARMACEUTICALS CORP PATENT ASSIGNEE(S):

COUNTRY COUNT:

PATENT INFORMATION:

KIND DATE WEEK LA PG PATENT NO US 5726044 A 19980310 (199817) * 18

APPLICATION DETAILS:

KIND APPLICATION PATENT NO DATE

US 1994-305700 19940914 US 1995-528122 19950914 US 5726044 A CIP of

FILING DETAILS:

PATENT NO KIND PATENT NO US 5726044 A CIP of US 5541087

PRIORITY APPLN. INFO: US 1995-528122 19950914; US 1994-305700 19940914

1998-192768 [17] WPIDS AN

1996-179945 [18] CR

5726044 A UPAB: 19980428 AB

> New recombinant DNA construct for expression and secretion of a target protein, whose sequence is free of immunoglobulin CH1, comprises a polynucleotide encoding from its 5' to 3' direction: (a) a secretion signal sequence, comprising a sequence encoding an immunoglobulin Fc region, and (b) a sequence encoding the target protein, comprising at least 1 of gp120. Also claimed are a replicable expression vector comprising the DNA, and a host cell transformed with the vector.

USE - The products can be used to produce a recombinant fusion protein (immunofusin) comprising the Fc region and gp120.

ADVANTAGE - The DNA can be expressed at high levels in a host cell, and the fusion protein is efficiently produced and secreted. Dwg.0/1

L27 ANSWER 14 OF 14 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

ACCESSION NUMBER:

1989-025650 [04] 1990-031296 [05]

CROSS REFERENCE:

DOC. NO. CPI: C1989-011395

TITLE:

Genes for protease A and protease B from Streptomyces

griseus - used for expressing fusion proteins in which protein is expressed in

WPIDS

bioactive form.

DERWENT CLASS:

B04 D16

15

INVENTOR(S):

DAVEY, C; GARVIN, R T; HENDERSON, G; KRYGSMAN, P; LIU, C

J; MALEK, L T; JAMES, E

PATENT ASSIGNEE(S):

(CANG-N) CANGENE CORP

COUNTRY COUNT:

PATENT INFORMATION:

PAT	ENT N	10		KIN	I D	DATE	WE	EK		LA	F	•G
EP	30046	66		А	198	390125	(198	3904)	EN	1	26	
	R: A	T BE	CH	DE	ES	FR GB	GR I	T LI	LU	NL	SE	
CA	12955	66		С	199	920211	(199	213)				
ΕP	30046	6		B1	199	950913	(199	9541)	EN	1	24	
	R: A	T BE	СН	DE	ES	FR' GB	GR I	T LI	LU	NL	SE	
DE	38544	56		G	199	951019	(199	9547)				
ES	20761	.52		Т3	199	951101	(199	9550)				
US	55145	90		A	199	960507	(199	624)			13	
US	56416	663		Α	199	970624	(199	731)			85	

APPLICATION DETAILS:

PATENT NO KIND APPLICATION DATE

ΕP	300466	Α		EP	1988-111713	19880720
CA	1295566	С		CA	1987-542678	19870721
ΕP	300466	B1	•	ΕP	1988-111713	19880720
DE	3854456	G		DE	1988-3854456	19880720
				ΕP	1988-111713	19880720
ES	2076152	Т3		ΕP	1988-111713	19880720
US	5514590	Α	CIP of	US	1985-795331	19851106
			Cont of	US	1988-221346	19880718
			Cont of	US	1992-844937	19920304
	•		Cont of	US	1993-66938	19930525
				US	1994-203644	19940301
US	5641663	Α	Cont of	US	1985-795331	19851106
			Cont of	US	1988-221346	19880718
			Cont of	US	1988-224568	19880726
			Cont of	US	1991-646466	19910125
			CIP of	US	1992-844937	19920304
			CIP of	US	1992-863546	19920406
			Cont of	US	1992-935314	19920826
				US	1994-318193	19941005

FILING DETAILS:

PATENT NO	KIND	PATENT NO
DE 3854456	G Based on	EP 300466
ES 2076152	T3 Based on	EP 300466
US 5641663	A Cont of	US 5200327

PRIORITY APPLN. INFO: CA 1987-542678 19870721; CA 1988-572956 19880725

AN 1989-025650 [04] WPIDS

CR 1990-031296 [05]

AB EP 300466 A UPAB: 19970806

A recombinant DNA sequence comprises a DNA signal sequence encoding a signal peptide (SP) and a DNA gene sequence encoding a protein, the recombinant DNA sequence when expressed in a living cell encoding the SP with the protein, the SP directing the secretion of the protein from a cell within which the DNA signal sequence is expressed.

Also claimed is a biologically pure isolated DNA signal sequence encoding a 38-amino acid SP which directs secretion of a recombinant gene protein linked to the 38-amino acid SP from a cell in which the DNA signal sequence is expressed, the DNA signal sequence being isolated from Streptomyces.

Also claimed are fused proteins encoded by the recombinant DNA sequences. Also claimed are biologically pure DNA sequences isolated from S. griseus encoding for fused proteins of SP-propeptide-protease A and -protease B structure the DNA sequence being specified.

ADVANTAGE - The recombinant DNA sequence encodes for a desired protein so that the expressed protein, in conjunction with the signal peptide and opt. the propeptide provide for secretion of the desired protein in bioactive form.

Dwg.0/6

ABEQ EP 300466 B UPAB: 19951019

The specific DNA signal sequence, (given in the specification). Dwg.0/6

ABEQ US 5514590 A UPAB: 19960618

A gene expression system for secretion of bioactive disulfide bond-containing proteins from a host of the genus Streptomyces, wherein: said expression system comprises a promoter sequence that is operably linked to a nucleotide sequence encoding a polypeptide;
said polypeptide comprises the signal peptide of
Streptomyces griseus protease B and a heterologous protein that is
operably linked to said signal peptide;

said heterologous protein is a disulfide bond-containing protein; and said signal peptide, when said gene expression system is expressed in a host of the genus Streptomyces, directs secretion of said heterologous protein in its bioactive disulfide bond-containing form.

Dwg.0/6c

ABEQ US 5641663 A UPAB: 19970731

A gene expression system comprising a regulatory polynucleotide molecule that is operatively linked to a second polynucleotide molecule encoding a eucaryotic protein, wherein (A) the regulatory polynucleotide molecule comprises

- (i) a promoter polynucleotide molecule and
- (ii) a signal polynucleotide molecule encoding a signal peptide capable of directing secretion of eucaryotic protein in bioactive form from a host selected from the genus Streptomyces;
- (B) the **signal peptide** comprises a 15-mer of Streptomyces griseus protease B, MRIKRTSNRSNAARR; and
- (C) where the promoter polynucleotide molecule is operably linked to the signal polynucleotide molecule.

 Dwg.0/27